

# **Elenco aggiornato delle pubblicazioni del Coordinatore e dei singoli componenti del Collegio dei Docenti**

**V. Nassisi, J. Krásá, K. Rohlena**, “Significant role of the recombination effects for a laser ion source”, *J. Phys. D: Appl. Phys.* **39**, 294-300 (2006).

**V. Nassisi et al.** “Novel pulse amplifying circuits based on transmission lines of different characteristic impedance”, *Nucl. Instrum. Meth. A* **556**, 296-301 (2006).

**V. Nassisi and P. Alifano**, “Effects of XeCl UV308 nm Laser Radiation on Survival and Mutability of RecA-Proficient and RecA-Defective Escherichia Coli Strains”, *Radiat. Res.* **165**, 532-537 (2006).

V. Nassisi, P. Alifano, C. Monaco and S. Panzanaro, “The effects of UV laser radiation as sterilizer for cultural heritage”, Macromolecular Symposia 238, 52-56 (2006)

**V. Nassisi, L. Velardi, P. Alifano, C. Monaco, A. Talà, M. Tredici and A. Rainò**, “Experimental analysis of a TEM plane transmission line for DNA studies at 900 MHz EM fields”, *J. Phys. D: Appl. Phys.* **39**, 2856-2861(2006).

**V. Nassisi and J. Krásá**, “Pre- and post-extraction analyses of different charge state ion components produced in a laser ion source”, *Rev. Sci. Instrum.* **77**, 03B301-1-3 (2006).

**Lorusso, F. Belloni and V. Nassisi**, “On the dynamics of a non-equilibrium Cu plasma produced by an excimer laser interaction with a solid”, *J. Plasma Phys.* **72**, 229-239 (2006).

**A. Lorusso, V. Nassisi, L. Velardi**, “Determination of recombination length of a non-equilibrium plasma produced by laser ablation”, *Nuovo Cimento C Vol. 29 no. 3*, 309-313 (2006).

**P. Alifano, V. Nassisi, A. Talà and M. Tredici**, “Effects induced by XeCl laser radiation and germicidal lamp radiation on E. coli strains survival and mutability”, *Proc. SPIE* **6191**, 61911I (2006)

**F. Belloni, D. Doria, A. Lorusso, V. Nassisi and L. Torrisi**, “Development of an ion source via laser ablation plasma”, *Proceedings of EPAC 2006*, Edinburgh, Scotland, 3119-3121 (2006).

**V. Nassisi, L. Velardi and M.V. Siciliano**, “New pulsed current and voltage circuits based on transmission lines”, *Proceedings of EPAC 2006*, Edinburgh, Scotland, 3122-3124 (2006).

**V. Nassisi, A. Lorusso, L. Martina and M. V. Siciliano**, “Temporal quantum efficiency of a micro-structured cathode”, *Proceedings of EPAC 2006*, Edinburgh, Scotland, 3149-3151 (2006).

**A. Lorusso and V. Nassisi**, “Ion implantation via laser ion source”, *Proceedings of EPAC 2006*, Edinburgh, Scotland, 2355-2357 (2006).

**D. Bleiner, D. Doria, A. Lorusso and V. Nassisi**, “Laser-assisted ion implantation”, **Abstracts of Invited Lectures and Contributed Papers, 18th European Conference on Atomic and Molecular Physics of Ionised Gases (ESCAMPIG XVIII)**, Lecce, Italy, July 12 – 16, 2006.

**G. Caretto, V. Nassisi and M. V. Siciliano**, “Plasma influence on photoemission from metal by UV lasers”, **Abstracts of Invited Lectures and Contributed Papers, 18th European Conference on Atomic and Molecular Physics of Ionised Gases (ESCAMPIG XVIII)**, Lecce, Italy, July 12 – 16, 2006.

**D. Doria, V. Nassisi and L. Velardi**, “Recombination processes during the laser-plasma expansion”, **Abstracts of Invited Lectures and Contributed Papers, 18th European Conference on Atomic and Molecular Physics of Ionised Gases (ESCAMPIG XVIII)**, Lecce, Italy, July 12 – 16, 2006.

**V. Nassisi, F. Belloni, D. Doria and A. Lorusso**, “A novel TOF spectrometer for studying of plasma ion energy distribution”, **Abstracts of Invited Lectures and Contributed Papers, 18th European Conference on Atomic and Molecular Physics of Ionised Gases (ESCAMPIG XVIII)**, Lecce, Italy, July 12 – 16, 2006.

**G. Cicala, V. Nassisi**, “Shock wave propagation in stable, uniform and low pressure DC discharge of Ar”, **Abstracts of Invited Lectures and Contributed Papers, 18th European Conference on Atomic and Molecular Physics of Ionised Gases (ESCAMPIG XVIII)**, Lecce, Italy, July 12 – 16, 2006.

**G. Cicala, V. Nassisi**, “Laser deflection diagnostics of shock wave interaction with Ar and N<sub>2</sub> DC discharges”, **XXV International Symposium on Rarefied Gas Dynamics**, Saint-Petersburg, Russia, July 21 – 28, 2006.

**V. Nassisi, A. Lorusso**, “On temperature measurements in a non-equilibrium plasma”, **Proceedings of the 33rd annual European Physical Society Conference on Controlled Fusion and Plasma Physics**, Rome, Italy, June 19 – 23, 2006, ECA Vol. 30I, D-5.026 (2006).

**L. S. Leo, A. Lorusso, G. Nassisi, V. Nassisi, R. Rucco, L. Torrisi**, “X-Rays Technology for the Study of Laser Cleaning of Bronze and Copper Coins”, **Proc. EXRS Conference 2006-Parigi, France, 19-23 June, 2006.**

**A. Lorusso, F. Belloni, D. Doria and V. Nassisi**, “Characterization of expanding laser plasma produced by laser ablation”, **Proceedings of the 15th Annual Student Conference “Week of Doctoral Students 2006”, Physics of Plasma and Ionized Media, J. Safrankova and J. Pavlu (editors), 75-80 (2006).**

**F. Belloni, V. Nassisi, L. Torrisi, J. Wolowski, D. Doria, A. Lorusso and L. Velardi**, “Laser ion source for Ge ion implantation of silicon surfaces”, **Proc. SPIE 6346, GCL/HPL 2006, 634634-1/634634-8.**

**V. Nassisi, L. Torrisi, A. Visco, A. Lorusso, L. Velardi, G. Caretto, F. Belloni, J. Beltrano and N. Campo**, “Modification studies of polyethylene by multi-ion implantation by laser ion source”, **Proc. SPIE 6346, GCL/HPL 2006, 634638-1/634638-6.**

**A. Lorusso, V. Nassisi, G. Nassisi, A. Buccolieri, A. Castellano, L. Torrisi, L. S. Leo, M. Di Giulio**, “Selective Laser Cleaning of Chlorine on Ancient Coins”, **Proc. SPIE 6346, GCL/HPL 2006, 63463H-1/63463H-9.**

**A. Lorusso, V. Nassisi, A. Picciotto**, “Characterization of Laser Ablation of Polymethylmethacrylate at Different Laser Wavelengths”, **Rad. Eff. Def. Solids 163 (2007).**

**F. Belloni, A. Lorusso, V. Nassisi**, “Asymmetry in Electron and Ion Charge Collection in a Drifting Plasma Bunch”, **J. Appl. Phys. 101, 096102 (2007)**

G. Caretto, D. Doria, V. Nassisi and M.V. Siciliano, “Photoemission studies from metal by UV laser”, **J. Appl. Phys. 101, 73109 (2007)**

D. Bleiner, A. Bogaerts, F. Belloni and V. Nassisi, “Laser-induced plasmas from the ablation of metallic targets: The problem of the onset temperature, and insights on the expansion dynamics”, **J. Appl. Phys. 101, 83301 (2007)**

**G. Buccolieri, A. Castellano, M. Di Giulio, V. Nassisi, A. L. Leo**, “Laser cleaning per la rimozione selettiva dei prodotti di corrosione su manufatti bronzei di interesse storico-artistico”, **Proc. X Cong. Nazionale di Chimica dell'Ambiente e dei Beni Culturali. Acaya (Lecce)-I 83 (2007).**

**V. Nassisi et al.**, “Modification of UHMWPE processed by laser ion implantation”, **XXXVI Congresso Nazionale di Chimica Fisica, Gallipoli-Lecce, 17-22 giugno 2007, 111-112.**

**V.Nassisi et al.**, Si nanocrystals obtained in SiO<sub>2</sub> matrix by low energy ion implantation, *XXXVI Congresso Nazionale di Chimica Fisica, Gallipoli-Lecce, 17–22 giugno 2007, 118-119.*

**A. Castellano, A. Buccolieri, G. Buccolieri, G. Palamà, A. Lorusso, V. Nassisi**, “EDXRF and XRD for the study of laser cleaning silver”, *7<sup>th</sup> International Topical Meeting on Industrial Radiation and Radioisotope Measurement Application, Prague-Czech Republic, 22-27 June 2008*, p. 180.

**A.Lorusso, J. Krasa, V. Nassisi, L. Velardi**, “Ion currents emitted from monocrystalline Fe+2%Si and Fe solid targets by UV laser ablation”, *19<sup>th</sup> Europhysics Conference on the Atomic and Molecular Physics of Ionized Gases, July 15-19, 2008, Granada, Spain*, CD-Rom 2-81.

**A. Lorusso, V. Nassisi, F. Paladini, M. Rosano, M. V. Siciliano**, “Modification of polymeric surfaces by IR and UV laser irradiation”, *19<sup>th</sup> Europhysics Conference on the Atomic and Molecular Physics of Ionized Gases, July 15-19, 2008, Granada, Spain*, CD-Rom 2-82.

**M. V. Siciliano, A. Lorusso, V. Nassisi, A. Rainò**, “Comparison of soft X-Ray from metal plasmas”, *19<sup>th</sup> Europhysics Conference on the Atomic and Molecular Physics of Ionized Gases, July 15-19, 2008, Granada, Spain*, CD-Rom 2-88

**G. Buccolieri, A. Lorusso, V. Nassisi, C. Troisio, F. Vona**, “Laser action on acanthite and jalpaite in Ag artefacts”, *19<sup>th</sup> Europhysics Conference on the Atomic and Molecular Physics of Ionized Gases, July 15-19, 2008, Granada, Spain*, CD-Rom 2-86

**A. Lorusso, J. Krasa, L. Laska, V. Nassisi, L. Velardi**, “Fe and Fe+2% targets as ion sources via UV laser ablation plasma” *23<sup>rd</sup> Symposium on Plasma Physics and Tecnology, June 16-19, 2008, Prague-Czech Republic*, 54.

**A. Lorusso, V. Nassisi, M. V. Siciliano**, “Generation of short-soft X-Ray pulses” *23<sup>rd</sup> Symposium on Plasma Physics and Tecnology, June 16-19, 2008, Prague, Czech Republic*, 47.

**A. Lorusso, V. Nassisi, M.V. Siciliano and V. Vergine**, “Study of soft X-ray induced by plasma laser”, *Rad. Eff. Def. Solids 163 (2008)*

**L. Velardi, A. Lorusso, V. Nassisi, G. Congedo**, “Generation of Si nanocrystals by ion implantation utilizing a LIS device”, *Rad. Eff. Def. Solids 163 (2008)*.

**L. Giuffrida, L. Torrisi, A. Czarnecka, J. Wolowsky, G. Quarta, L. Calcagnile, A. Lorusso, V. Nassisi**, “Ge laser-generated plasma for ion implantation”, *Rad. Eff. Def. Solids 163 (2008)*

**A. Lorusso, L. Velardi, V. Nassisi**, “Characterization of laser-produced plasma of metal targets”, *Rad. Eff. Def. Solids 163 (2008)*.

**A. Lorusso, L. Velardi, V. Nassisi, L. Torrisi, D. Margarone, A. Mezzasalma and A. Rainò**, “Characteristic modification of UHMWPE by laser-assisted ion implantation”, *Rad. Eff. Def. Solids 163 (2008)*.

**A. Lorusso, V. Nassisi, A. Buccolieri, G. Buccolieri, A. Castellano, A. L. Leo, M. Di Giulio, L. Torrisi, F. Caridi, A. Borrielli**, “Laser ablation threshold of cultural heritage metal”, *Rad. Eff. Def. Solids 163 (2008)*.

G. Caretto, L. Martina, V. Nassisi and M.V. Siciliano, “Temporal behavior of photoemission for yttrium cathodes”, *Rad. Eff. Def. Solids 163 (2008)*

**G. Caretto, P. Miglietta, V. Nassisi, A. Perrone, M.V. Siciliano**, “Photoelectron performance of Y thin films and Y smooth bulk cathodes”, *Rad. Eff. Def. Solids 163 (2008)*

**P. Alifano, A. Lorusso, V. Nassisi, A. Talà, S. M. Tredici**, “Application of XeCl<sub>308nm</sub> excimer laser radiation to mutagenesis of industrial microorganisms”, *Rad. Eff. Def. Solids 163 (2008)*.

**A. Lorusso, F. Paladini, V. Nassisi, L. Torrisi, A. Visco, N. Campo**, “Laser effects induced on ultra-high molecular weight polyethylene”, *Rad. Eff. Def. Solids 163 (2008)*

A. Lorusso, V. Nassisi and M.V. Siciliano, “Fast capacitive probe for short and high intensity electromagnetic pulses diagnostic” *Rev. Sci. Instrum. 79, 64702-06 (2008)*

**A. Lorusso, V. Nassisi, L. Velardi, G. Congedo** “Si nanocrystals formation by a new ion implantation device”, *Nucl. Instrum. Meth. B 266 2486-89 (2008)*

A. Lorusso, L. Velardi, V. Nassisi, F. Paladini, A. M. Visco, N. Campo, L. Torrisi, D. Margarone, L. Giuffrida, A. Rainò “Polymer processing by a low energy ion accelerator”, *Nucl. Instrum. Meth. B266 2490-93 (2008)*

**G. Caretto, L. Martina, V. Nassisi and M.V. Siciliano**, “Behavior of photocathodes on superficial modification by electrical breakdown”, *Nucl. Instrum. Meth. B 266 2157-60 (2008)*

**V. Nassisi, M. Pfeifer, K. Rohlena, L. Torrisi, J. Ullschmied and A. Velyhan**, “Partial currents of ion species in an expanding laser-created plasma”, *Vacuum 83, 180-184 (2008)*

A. Lorusso, F. Paladini, L. Velardi, A. Rainò, A.M. Visco, N. Campo, L. Torrisi, V.Nassisi  
“Characteristics modification of UHMWPE processed by laser ion implantation” VIII Giornata di Studio BIOMATERIALI E BIOMECCANICA, Catania, 13 luglio 2007  
<http://ww2.unime.it/dipfisica/docenti/torrisi/BIOMAT07/index.html> pag. 290 (2008)

A. Lorusso, F. Paladini, V. Nassisi, L. Torrisi, A.M. Visco, N. Campo “Wettability modification of UHMWPE by laser beam irradiation” VIII Giornata di Studio BIOMATERIALI E

BIOMECCANICA, Catania, 13 luglio 2007

<http://ww2.unime.it/dipfisica/docenti/torriSI/BIOMAT07/index.html> pag. 259 (2008)

V. Nassisi, F. Paladini, M.V. Siciliano, P. Alifano, S.M. Tredici "Batteri fotoluminescenti come sensori di gradiente di campo magnetico" VIII Giornata di Studio BIOMATERIALI E BIOMECCANICA, Catania, 13 luglio 2007

<http://ww2.unime.it/dipfisica/docenti/torriSI/BIOMAT07/index.html> pag. 147 (2008)

A. Lorusso, L. Velardi, V. Nassisi, J Krásá, "Laser-induced plasmas by UV excimer lasers", Phys. Plasmas (2008) (in corso di revisione 2009).

J. Krásá, K. Jungwirth, S. Gammino, E. Krousky, L. Laska, A. Lorusso, V. Nassisi, M. Pfeifer, K. Rohlena, L. Torrisi, J. Ullschmied and A. Velyhan, "Partial currents of ion species in an **expanding laser-created plasma**", **6th International Symposium on Applied Plasma Science (ISAPS'07), Nikko-Giappone, 24-28 Settembre 2007.**

V. Nassisi, G. Buccolieri, A. Lorusso, "Laser cleaning of a silver Carlino coin", Proc. , **2st International Workshop on: Science, Technology and Cultural Heritage-Lecce, 10-13 Marzo (2008)**

L. Velardi, V. Nassisi, A. Lorusso, G. Congedo, "Pulsed plasma ion source to create Si nanocrystals in SiO<sub>2</sub>", European Materials Research Society (**EMRS08**), **Strasburgo-Francia, 26-30 Maggio 2008**

J. Krásá, L. Láska, K. Rohlena, A. Velyhan, A. Lorusso, V. Nassisi, A. Czarnecka, P. Parys, L. Ryć, J. Wolowski, "Effects of 2 mass% Si admixture in a laser-produced Fe plasma" *Appl. Phys. Lett.* **93**, **191503-1-3 (2008)**

A. Lorusso, V. Nassisi, G. Congedo, N. Lovergine, L. Velardi, P. Prete, "Pulsed plasma ion source to create Si nanocrystals in SiO<sub>2</sub> substrates", *Appl. Surf. Sci.* **255**, **5401-04 (2009)**

A. Lorusso, L. Velardi, V. Nassisi, J Krásá, "Wavelenght effect of XeCl and KrF lasers on expansion of laser-created Cu ions into the vacuum", *J Plasma Phys.* **(2009)** (sottomesso 2009).

A. Lorusso, V. Nassisi, G. Congedo, N. Lovergine, L. Velardi, P. Prete, "Pulsed plasma ion source to create Si nanocrystals in SiO<sub>2</sub> substrates", *Appl. Surf. Sci.* **255**, 5401-04 (2010)

A. Lorusso, J. Krásá, L. Laska, V. Nassisi, L. Velardi, "Fe and Fe+2% targets as ion sources via UV laser ablation plasma", *Eur. Phys. J. D* **54**, 473-76 (2009)

M.V. Siciliano, A. Lorusso, IL. Velardi, V. Nassisi, L. Velardi, "Sort soft X-ray sources", *X-Ray Spectrom.* **38**, 544-47 (2009)

**A. Lorusso, M.V. Siciliano, L. Velardi, V. Nassisi**, "Low Emittance Plasma Ions Beam by a new Double Accelerating Configuration", *Nucl. Instrum. Meth. A* **614**, 169-173 (2010)

**A. Lorusso, M.V. Siciliano, L. Velardi and V. Nassisi**, "Fasci di ioni a bassa energia applicati a biomateriali", Proceed. *IX Giornata Studio BIOMATERIALI e BIOMECCANICA, Edizioni: Dipartimento di Chimica Industriale e Ingegneria dei Materiali* ISBN: 978-88-96398-08-1,

Messina, p.119-125 (2009).

**Antonella Lorusso, Maria Vittoria Siciliano, Luciano Velardi, Vincenzo Nassisi**, “Double Acceleration of Ions and Application in Biomaterials” [AIP Conf. Proc.](#) Volume [1209](#), pp. 79-82 (2010)

**A. Lorusso, M.V. Siciliano, L. Velardi and V. Nassisi**, “Fasci di ioni a bassa energia applicati a biomateriali”, IX Giornata Studio BIOMATERIALI e BIOMECCANICA, Messina, 3 luglio 2009 **Edizioni: Dipartimento di Chimica Industriale e ingegneria dei materiali ISBN: 978-88-96398-08-1 p.119-125, (2010)**

**A. Lorusso, G. Buccolieri, G Palamà, M. Di Giulio, M.V. Siciliano, F. Paladini, A. Rainò, L. Velardi and V. Nassisi**, “Modifica superficiale di polimeri da fasci laser UV e IR”, IX Giornata Studio BIOMATERIALI e BIOMECCANICA, Messina, 3 luglio 2009 **Edizioni: Dipartimento di Chimica Industriale e ingegneria dei materiali ISBN: 978-88-96398-08-1 p.135-142, (2010)**

**P. Alifano, A. Lorusso, V. Nassisi, A. Rainò, M.V. Siciliano, A. Talà, S. M. Tredici, L. Velardi**, “Studi della crescita e mutazione di batteri esposti a frequenze GSM/UMTS con una cella TEM”, IX Giornata Studio BIOMATERIALI e BIOMECCANICA, Messina, 3 luglio 2009 **Edizioni: Dipartimento di Chimica Industriale e ingegneria dei materiali ISBN: 978-88-96398-08-1 p. 268-273, (2010)**

**A. Talà, A. Lorusso, S. M. Tredici, V. Nassisi, P. Alifano**, “Application of XeCl excimer laser radiation to mutate industrial microorganisms, I Workshop Plami, Sorgenti Biofisica ed Applicazioni, Lecce, 8 ottobre 2008 **Edizioni: Università del Salento 978-88-8305-070-1, pag. 8 (2010)**

**M.V. Siciliano, A. Lorusso, L. Velardi, V. Vergine and V. Nassisi**, “Short soft X-ray sources, I Workshop Plami, Sorgenti Biofisica ed Applicazioni, Lecce, 8 ottobre 2008 **Edizioni: Università del Salento 978-88-8305-070-1, pag. 33 (2010)**

**A. Lorusso, V. Nassisi, M.V. Siciliano** “Fast capacitive probe for short and high intensity electromagnetic pulses diagnostic, I Workshop Plami, Sorgenti Biofisica ed Applicazioni, Lecce, 8 ottobre 2008 **Edizioni: Università del Salento 978-88-8305-070-1, pag. 44 (2010)**

**A. Lorusso, G. Buccolieri, A. Nassisi, G Palamà, M. Di Giulio, M.V. Siciliano, F. Paladini, A. Rainò, L. Velardi and V. Nassisi**, “Modifica superficiale di polimeri da fasci laser UV e IR, I Workshop Plami, Sorgenti Biofisica ed Applicazioni, Lecce, 8 ottobre 2008 **Edizioni: Università del Salento 978-88-8305-070-1, pag. 48 (2010)**

**A. Lorusso, M.V. Siciliano, L. Velardi and V. Nassisi**, “Ion and electron generation by laser useful for radiotherapy and adrontherapy, I Workshop Plami, Sorgenti Biofisica ed Applicazioni, Lecce, 8 ottobre 2008 **Edizioni: Università del Salento 978-88-8305-070-1, pag. 53 (2010)**

**A. Lorusso, M.V. Siciliano, L. Velardi and V. Nassisi**, “Fasci di ioni a bassa energia applicati a biomateriali, I Workshop Plami, Sorgenti Biofisica ed Applicazioni, Lecce, 8 ottobre 2008 **Edizioni: Università del Salento 978-88-8305-070-1, pag. 60 (2010)**

**F. Adduci, A. Buccolieri, G. Buccolieri, A. Castellano, A. Lorusso, V. Nassisi and F. Vona,**  
“Laser cleaning applied on a silver Carlino coin, I Workshop Plami, Sorgenti Biofisica ed  
Applicazioni, Lecce, 8 ottobre 2008 **Edizioni: Università del Salento 978-88-8305-070-1, pag. 64**  
**(2010)**

**L. Velardi, A. Lorusso, F. Paladini, M.V. Siciliano, M. Di Giulio, A. Rainò, V. Nassisi**  
“Modification of polymer characteristics by laser and ion beam”, *Rad. Eff. Def. Solids* **165**, 637-42  
**(2010)**

**A. Lorusso, M.V. Siciliano, L. Velardi, V. Nassisi**, “Ion acceleration by double stage accelerating device for laser-induced plasma ions” *Rad. Eff. Def. Solids* **165**, 521-27 (2010)

**A. Lorusso<sup>1</sup>, M.V. Siciliano<sup>1,3</sup>, L. Velardi<sup>1,2</sup> and V. Nassisi<sup>1</sup>**, “Low energy ion beams by laser interaction” *Appl. Phy. A.* **101**, 179-183 (2010)

**A. Velyhan, J. Krása, E. Krouský, L. Láska, D. Margarone, M. Pfeifer, K. Rohlenaa, J. Skála, J. Ullschmied, A. Lorusso, L. Velardi, V. Nassisi**, “Ion emission from laser ablation of Cu and Cu98/Be2 alloy targets” *Rad. Eff. Def. Solids* **165**, 488-94 (2010)

**M.V. Siciliano, A. Lorusso, , L. Velardi, V. Nassisi**, “Comparing of Soft X-Ray Pulses induced by different metallic plasmas” *Rad. Eff. Def. Solids* **165**, 652-58 (2010)

**A. Lorusso, V. Nassisi, J. Krasa, L. Velardi**, “Multi-mode velocity distribution of ions in UV laser-induced plasma plume”, *Rad. Eff. Def. Solids* **165**, 495-500 (2010)

**A. Buccolieri, G. Buccolieri, A. Castellano, A. Lorusso, V. Nassisi**, “Experimental results of UV laser cleaning on a silver CARLINO coin” *Rad. Eff. Def. Solids* **165**, 643-51 (2010)

**L. Ryć, J. Krása, T. Nowak, J. Kravarik, D. Klir, E. Krouský, A. Lorusso, D. Margarone, V. Nassisi, M. Pfeifer, J. Skála, J. Ullschmied, A. Velyhan**, “Application of single-crystal CVD diamond detector for simultaneous measurement of ions and X-rays from laser plasmas” *Rad. Eff. Def. Solids* **165**, 481-87 (2010)

**V. Nassisi M.V. Siciliano**, “Low Emittance Ion Beams by Laser Interaction” *Nucl. Instrum. Meth. A* **1**, 61 (2011)

**J. Krása, A. Lorusso, V. Nassisi, L. Velardi, A. Velyhan**, “Revealing of Hydrodynamic and Electrostatic Factors in the Center-of-Mass Velocity of an Expanding Plasma Generated by Pulsed Laser Ablation” *Laser and Particle Beams* **1**, 7 (2011)

**V. Nassisi, G. Caretto, A. Lorusso, D. Manno, L. Famà, G. Buccolieri, A. Buccolieri, U. Mastromatteo**, “Modification of Pd-H2 and Pd-D2 Thin Films Processed by He-Ne Laser” *RJ. Condensed Matter Nucl. Sci.* **4**, 6 (2011)

**P. Bernardini et al** "Layout and performance of RPCs used inthe ARGO-YBJ experiment",  
Nuclear Instr. and Methods A **562** (2006) 92-96

**P. Bernardini et al** "An upper limit to the photonfraction in cosmic rays above  $10^{19}$  eV from the Pierre Auger Observatory", Astroparticle Physics 27 (2007) 155-168

**P. Bernardini et al** "Anisotropy studies around the galactic centre at EeV energies with the Auger Observatory", Astroparticle Physics 27 (2007) 244-253

**P. Bernardini et al** "Detector Time Offset and Off-line Calibration in EAS Experiments", Astroparticle Physics 27 (2007) 528-532

**P. Bernardini et al** "NOW 2006", Nucl. Phys. B (Proc. Suppl.) 168 (2007) 430 pagg.

**P. Bernardini et al** "Correlation of the Highest-Energy Cosmic Rays with Nearby Extragalactic Objects", Science 318 (2007) 938-943

**P. Bernardini et al** "Correlation of the highest-energy cosmic rays with the positions of nearby active galactic nuclei", Astroparticle Physics 29 (2008) 188-204

**P. Bernardini et al** "Upper Limit on the Cosmic-Ray Photon Flux Above  $10^{19}$  eV Using the Surface Detector of the Pierre Auger Observatory", Astroparticle Physics 29 (2008) 243-256

**P. Bernardini et al** "Upper Limit on the Diffuse Flux of Ultrahigh Energy of Tau Neutrinos from the Pierre Auger Observatory", Physical Review Letters 100 (2008) 211101

**P. Bernardini et al** "Observation of the suppression of the flux of cosmic rays above  $4 \times 10^{19}$  eV", Physical Review Letters 101 (2008) 061101

**P. Bernardini et al** "Scaler mode technique for the ARGO-YBJ Detector", Astroparticle Physics 30 (2008) 85-95

**P. Bernardini et al** "Software Timing Calibration of the ARGO-YBJ Detector", Astroparticle Physics 30 (2009) 287-292

**P. Bernardini et al** "NOW 2008", Nucl. Phys. B (Proc. Suppl.) 118 (2009) 410 pagg.

**P. Bernardini, G. Aielli et al. (ARGO-YBJ Collaboration)** "Search for Gamma Ray Bursts with the ARGO-YBJ detector in Scaler Mode", Astrophysical Journal 699 (2009) 1281-1287

**P. Bernardini et al** "Upper limit on the cosmic-ray photon fraction at EeV energies from the Pierre Auger Observatory", Astroparticle Physics 31 (2009) 399-406

**P. Bernardini et al** "ARGO-YBJ constraints on very high energy emission from GRBs", Astroparticle Physics 32 (2009) 47-52

**P. Bernardini et al** "Atmospheric effects on extensive air showers observed with the Surface Detector of the Pierre Auger Observatory", Astroparticle Physics 32 (2009) 89

**P. Bernardini et al** "Limit on diffuse flux of ultrahigh energy tau neutrinos with the surface

detector of the Pierre Auger Observatory", Phys. Rev. D 79 (2009) 102001

**P. Bernardini et al** "Temperature effect on RPC performance in the ARGO-YBJ experiment", Nuclear Instr. and Methods A **608** (2009) 246-250

**P. Bernardini et al** "Proton-air cross section measurement with the ARGO-YBJ cosmic ray experiment", Phys. Rev. D **80** (2009) 092004

**P. Bernardini et al** "Gamma ray flares from MRK421 in 2008 observed with the ARO-YBJ detector", in pubblicazione su Astroph. Journal Letters (2010)

**P. Bernardini et al** "ARGO-YBJ experiment and TeV gamma astronomy", Proceedings of NOW 2006 (Otranto, 2006), in Nucl. Phys. B (Proc. Suppl.) 168 (2007) 264-267

**P. Bernardini et al** "ARGO-YBJ experiment in Tibet", Proceedings of International Conference on Topics in Astroparticle and Underground Physics (TAUP) **2007** (Sendai, Giappone, Settembre 2007

2007), **Journal of Physics: Conference Series 120 (2008) 062022**

**P. Bernardini et al** "VHE gamma-astronomy observations with the ARGO-YBJ detector", in pubblicazione sui Proceedings de "XXI'emes Rencontres de Blois - Windows on the Universe" (**Blois, Francia, Giugno 2009**)

J. ABRAHAM, P. ABREU, M. AGLIETTA, C. AGUIRRE, E. J.AHN, D. ALLARD, I. ALLEKOTTE, J. ALLEN, P. ALLISON, J. ALVAREZ-MUNIZ, M. AMBROSIO, L. ANCHORDOQUI, S. ANDRINGA, A. ANZALONE, C. ARAMO, E. ARGANDA, S. ARGIR, K. ARISAKA, F. ARNEODO, F. ARQUEROS, T. ASCH, H. ASOREY, P. ASSIS, J. AUBLIN, M. AVE, G. AVILA, A. BACHER, T. BACKER, D. BADAGNANI, K. B.BARBER, A. F. BARBOSA, H. J. M. BARBOSA, N. BARENTHIEN, S.L.C. BARROSO, B. BAUGHMAN, P. BAULEO, J.J. BEATTY, T. BEAU, B.R. BECKER, K.H. BECKER, A. BELLETOILE, J.A. BELLIDO, S. BENZVI, C. BERAT, P. BERNARDINI, X. BERTOU, P.L. BIERMANN, P. BILLOIR, O. BLANCH-BIGAS, F. BLANCO, C. BLEVE, H. BLUMER, M. BOHACOVA, E. BOLLMANN, H. BOLZ, C. BONIFAZI, R. BONINO, N. BORODAI, F. BRACCI, J. BRACK, P. BROGUEIRA, W.C. BROWN, R. BRUIJN, P. BUCHHOLZ, A. BUENO, R.E. BURTON, N.G. BUSCA, K.S. CABALLERO-MORA, D. CAMIN, L. CARAMETE, R. CARUSO, W. CARVALHO, A. CASTELLINA, J. CASTRO, O. CATALANO, L. CAZON, R. CESTER, J. CHAUVIN, A. CHIAVASSA, J.A. CHINELLATO, A. CHOU, J. CHUDOBA, J. CHYE, P.D.J. CLARK, R.W. CLAY, E. COLOMBO, R. CONCEICAO, B. CONNOLLY, F. CONTRERAS, J. COPPENS, A. CORDERO, A. CORDIER, U. COTTI, S. COUTU, C.E. COVAULT, A. CREUSOT, A. CRISS, J.W. CRONIN, J. CUAUTLE, A. CURUTIU, S. DAGORET-CAMPAGNE, R. DALLIER, F. DAUDO, K. DAUMILLER, B.R. DAWSON, R.M. DE ALMEIDA, M. DE DOMENICO, C. DE DONATO, S.J. DE JONG, G. DE LA VEGA, W.J.M. DE MELLO JUNIOR, J.R.T. DE MELLO NETO, DE MITRI I., V. DE SOUZA, K.D. DE VRIES, G. DECERPRIT, L. DEL PERAL, O. DELIGNY, A. DELLA SELVA, C. DELLE FRATTE, H. DEMBINSKI, C. DI GIULIO, J.C. DIAZ, P.N. DIEP, C. DOBRIGKEIT, J.C. D', OLIVO, P.N. DONG, D. DORNIC, A. DOROFEEV, J.C. DOS ANJOS, M.T. DOVA, D. D', URSO, I. DUTAN, M.A. DU VERNOIS, R. ENGEL, M. ERDMANN, C.O. ESCOBAR, A. ETCHEGOYEN, P. FACAL SAN LUIS, H. FALCKE, G. FARRAR, A.C. FAUTH, N. FAZZINI, F. FERRER, A.

FERRERO, B. FICK, A. FILEVICH, A. FILIPCIC, I. FLECK, S. FLIESCHER, R. FONTE, C.E. FRACCHIOLLA, E.D. FRAENKEL, W. FULGIONE, R.F. GAMA RRA, S. GAMBETTA, B. GARCÝA, D. GARCÝA GAMEZ, D. GARCIA-PINTO, X. GARRIDO, H. GEENEN, G. GELMINI, H. GEMMEKEAI, P.L. GHIA, U. GIACCARI, K. GIBBS, M. GILLER, J. GITTO... (2010). **The Fluorescence Detector of the Pierre Auger Observatory.** NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH. SECTION A, ACCELERATORS, SPECTROMETERS, DETECTORS AND ASSOCIATED EQUIPMENT, vol. 620, Issue 2-3; p. 227-251, ISSN: 0168-9002

**A.P. Caricato et al.,:** Low Electrode Induced Optical Losses In Organic Active Single Layer PFO Waveguides With Two Indium Tin Oxides Electrodes Deposited By Pulsed Laser Deposition **Appl. Phys Lett.** **89** (2006) 031108

**A.P. Caricato et al.,:** Er-doped oxyfluoride silicate thin films prepared by pulsed laser deposition, **Optical Materials** **29** (2007) 1166-1170

**A.P. Caricato et al.,:** Reactive pulsed laser deposition of gold nitride thin films, **Applied Surface Science** 253, (2007) 8037-8040

**A.P. Caricato et al.,:** Pulsed Laser Photodeposition of a-Se nanofilms by ArF Laser, **Applied Surface Science** 253, (2007) 6517

**A.P. Caricato et al.,:** Uniform thin films of TiO<sub>2</sub> nanoparticles deposited by matrix-assisted pulsed laser evaporation, **Applied Surface Science** 253, (2007) 6471-6475

**A.P. Caricato et al.,** TiO<sub>2</sub> nanoparticles thin film deposition by Matrix Assisted Pulsed Laser Evaporation for sensing applications, **Applied Surface Science**, **253**, (2007) 7937-7941

**A.P. Caricato et al.,** Fe<sub>x</sub>Ni<sub>100-x</sub> nanometric films deposited by laser ablation on SiO<sub>2</sub>/Si substrate **Applied Surface Science** 253, (2007) 6522-6526

**A.P. Caricato et al.,:** Acetone and ethanol solid state gas sensors based on TiO<sub>2</sub> nanoparticles thin film deposited by Matrix Assisted Pulsed Laser Evaporation, **Sensors And Actuators. B, Chemical**, 127, (2007) 426

**A.P. Caricato et al.,** Matrix-assisted pulsed laser evaporation of polyfluorene thin films, **Applied Surface Science** 253, (2007) 6461

**A.P. Caricato et al.,** Structural properties of single and multilayer ITO and TiO<sub>2</sub> films deposited by reactive pulsed ablation deposition technique, **Applied Surface Science** 253, (2007) 6508-6511

**A.P. Caricato et al., M;** Pulsed Laser Deposition of Er doped tellurite films on large area **Journal of Physics: Conference Series**, **59** (2007) 475-478

**A.P. Caricato et al.,:** Zinc Oxide Nanostructures Grown By Pulsed Laser Deposition Applied Physics. 93, (2008) 729- 733.

**A.P. Caricato et al.,** Pulsed Laser Deposition Of Organic And Biological Materials. **Journal Of Materials Science-Materials In Electronics** **20** (2008) S435- S440

**A.P. Caricato et al.,** MAPLE deposition of methoxy Ge triphenylcorrole thin films **Applied Physics**. 93 (2008) 651- 654

**A.P. Caricato et al.,** MAPLE deposition and characterization of SnO<sub>2</sub> colloidal nanoparticle thin films **Journal Of Physics D-Applied Physics** 42 (2009) 95105- 95110

**A.P. Caricato et al.,** Study of temperature dependence and angular distribution of poly(9,9-

dioctylfluorene) polymer films deposited by matrix-assisted pulsed laser evaporation (MAPLE) Applied Surface Science 255, (2009), 9659-9664

**A.P. Caricato et al.**, Morphology and photoluminescence properties of zinc oxide films grown by Pulsed Laser Deposition. Applied Surface Science 255, (2009), 9680-9683

**A.P. Caricato et al.**, Optical gas sensing through nanostructured ZnO films with different morphologies, Actuators: B. Chemical 145, (2010), 167-173

D. Valerini, A. Creti', A.P. Caricato, M. Lomascolo, R. Rella, M. Martino:

**ZnO Nanostructures Deposited by Laser Ablation**, Nanotechnology Science and Technology, Nova Science Publishers Inc, New York

**Laser Beams: Theory, Properties and Applications: ZnO Nanostructures Deposited by Laser Ablation** D. Valerini, A. Creti', A.P. Caricato, M. Lomascolo, R. Rella, and M. Martino, Editors: Maxim Thys and Eugene Desmet, Nova Science Publishers Inc, New York

Valerini D., Creti A., Caricato A.P., Lomascolo M., Rella R., Martino.M, **Optical gas sensing through nanostructured ZnO films with different morphologies** Sensors & Actuators: B. Chemical 145 (2010) 167-173

Caricato A. P., Cesaria M., Luches A., Martino M., Maruccio G., Valerini D., Catalano M., Cola A., Manera M. G., Lomascolo M., Taurino A., Rella R., **Electrical and optical properties of ITO and ITO/Cr-doped ITO films** Applied Physics A 101 (2010) 753 – 758

Trevisi R., Caricato A.P., D'Alessandro M., Fernandez M., Leonardi F., Luches A., Tonnarini S., Veschetti M., **A pilot study on natural radioactivity in schools of south-east Italy** Environment International 36 (2010) 276-280

Caricato, AP; Leggieri, G; Martino, M, Vantaggiato A., Valerini D., Creti A., Lomascolo M., Manera, M. G., Rella, R., Anni, M. **Dependence of the surface roughness of MAPLE-deposited films on the solvent parameters** Applied Physics A-Materials Science & Processing 101 (2010) 759-764

Lamperti, A, Radnoci, G, Caricato, A. P., Trautmann, C., Ossi, P. M. **Structural modifications induced by swift heavy ions in thin films of yttria fully stabilized zirconia** Nuclear Instruments & Methods In Physics Research Section B- 268 (2010) 3132-3136

Caricato AP; Luches A; Martino M, Valerini D, Kudryavtsev Y. V., Korduban A. M., Mulenko S. A., Gorbachuk N. T. **Deposition of chromium oxide thin films with large thermoelectromotive force coefficient by reactive pulsed laser ablation** Journal Of Optoelectronics And Advanced Materials 12 (2010) 427-431

Caricato A. P., Gorbachuk N. T., Korduban A. M., Leggieri G., Luches A., Mengucci P., Mulenko, S. A., Valerini, D. **Structural, electrical, and optical characterizations of laser deposited anometric iron oxide films** Journal Of Vacuum Science & Technology B 28 (2010) 295-300

**S. Acquaviva, E. D'Anna, M. L. De Giorgi, A. Della Patria,P. Baraldi** "Physical and chemical investigations on natural dyes" APPLIED PHYSICS A, 100, 823, 2010

**S. Acquaviva, E. D'ANNA, M. L. De Giorgi, A. Della Patria, M. Fantuzzi** "Stabilità di coloranti vegetali su tessuti" Proc. VI Conferenza del Colore - Lecce 2010 Maggioli Editore

**M. L. De Giorgi et al.**, "Laser-induced breakdown spectroscopy for compositional analysis of multielemental thin films", **Spectrochimica acta, Part B: Atomic Spectroscopy. 61, (2006) 810-816**

**M. L. De Giorgi et al.**, Laser cleaning of gilded wood: a comparative study of colour variations induced by irradiation at different wavelengths, **Appl. Surf. Sci., 253, (2007) 7715-**

**M. L. De Giorgi et al.** Atomic and molecular emissions of the laser-induced plasma during zinc and zinc oxide target ablation, **J. Appl. Phys.** **102**, (2007) **073109\_1-073109\_7**

**M. L. De Giorgi et al.**, Optical characterization of pigments by reflectance spectroscopy in support of UV laser cleaning treatments, **Appl. Phys. A**, **92**, (2008) **223-227**

**M. L. De Giorgi et al.**, Yellow pigments in painting: characterisation and UV laser-induced modifications, **J. Raman Spectrosc.**, **40**, (2009) **1664-1667**

G. AIELLI, C. BACCI, B. BARTOLI, P. BERNARDINI, X.J. BI, C. BLEVE, P. BRANCHINI, A. BUDANO, S. BUSSINO, A.K. CALABRESE MELCARNE, P. CAMARRI, Z. CAO, A. CAPPA, R. CARDARELLI, S. CATALANOTTI, C. CATTANEO, P. CELIO, S.Z. CHEN, Y. CHEN, N. CHENG, P. RETI, S.W. CUI, B.Z. DAI, G. D', ALÍ STAITI, DANZENGLUOBU, M. DATTOLE, DE MITRI I., B. D', ETTORRE PIAZZOLI, M. DE VINCENZI, T. DI GIROLAMO, X.H. DING, G. DI SCIASCIO, C.F. FENG, ZHAOYANG FENG, ZHENYONG FENG, F. GALEAZZI, P. GALEOTTI, R. GARGANA, Q.B. GOU, Y.Q. GUO, H.H. HE, HAIBING HU, HONGBO HU, Q. HUANG, M. IACOVACCI, R. IUPPA, I. JAMES, H.Y. JIA, LABACIREN,

H.J. LI, J.Y. LI, X.X. LI, B. LIBERTI, G. LIGUORI, C. LIU, C.Q. LIU, M.Y. LIU, J. LIU, H. LU, X.H. MA, G. MANCARELLA, S.M. MARI, G. MARSELLA, D. MARTELLO, S. MASTROIANNI, X.R. MENG, P. MONTINI, C.C. NING, A. PAGLIARO, M. PANAREO, L. PERRONE, P. PISTILLI, X.B. QU, E. ROSSI, F. RUGGIERI, L. SAGGESE, P. SALVINI, R. SANTONICO, P.R. SHEN, X.D. SHENG, F. SHI, C. STANESCU, A. SURDO, Y.H. TAN, P. VALLANIA, S. VERNETTO, C. VIGORITO, B. WANG, H. WANG, C.Y. WU, H.R. WU, B. XU, L. XUE, Y.X. YAN, Q.Y. YANG, X.C. YANG, A.F. YUAN, M. ZHA, H.M. ZHANG, JILONG ZHANG, JIANLI ZHANG, L. ZHANG, P. ZHANG, X.Y. ZHANG, Y. ZHANG, ZHAXISANGZHU, X.X. ZHOU, F.R. ZHU, Q.Q. ZHU, G. ZIZZI (2010). **Gamma ray flares from Mrk421 in 2008 observed with the ARGO-YBJ detector. THE ASTROPHYSICAL JOURNAL LETTERS**, vol. 714; p. L208-L212, ISSN: 2041-8205

2 2010 J. ABRAHAM, P.ABREU, M.AGLIETTA, E.J.AHN, D.ALLARD, I.ALLEKOTTE, J.ALLEN, J.ALVAREZMUNIZ, M. AMBROSIO, L.ANCHORDOQUI, S.ANDRINGA, T.ANTICIC, A.ANZALONE, C.ARAMO, E.ARGANDA, K. ARISAKA, F.ARQUEROS, H.ASOREY, P.PASSIS, J.AUBLIN, M.AVE, G.AVILA, T.BACKER, D. BADAGNANI, M.BALZER, K.B.BARBER, A.F.BARBOSA, S.L.C.BARROSO, B.BAUGHMAN, P.BAULEO, J. BEATTY, B.R.BECKER, K.H.BECKER, A.BELLETOILE, J.A.BELLIDO, S.BENZVI, C.BERAT, T. BERGMANN, X.BERTOU, P.L.BIERMANN, P.BILLOIR, O.BLANCH-BIGAS,

F.BLANCO, M.BLANCO, C. BLEVE, H.BLUMER, M.BOHACOVA, D.BONCIOLI, C.BONIFAZI, R.BONINO, N.BORODAI, J. BRACK, P.BROGUEIRA, W.C.BROWN, R.BRUIJN, P.BUCHHOLZ, A.BUENO, R.E.BURTON, N. BUSCA, K.S.CABALLERO-MORA, L.CARAMETE, R.CARUSO, A.CASTELLINA, O.CATALANO, G. CATALDI, L.CAZON, R.CESTER, J.CHAUVIN, A.CHIAVASSA, J.A.CHINELLATO, A.CHOU, J. CHUDOBA, R.W.CLAY, E.COLOMBO, M.R.COLUCCIA, R.CONCEICAO, F.CONTRERAS, H.COOK, M. COOPER, J.COPPENS, A.CORDIER, U.COTTI, S.COUTU, C.E.COVAULT, A.CREUSOT,

A.CRISS, J. CRONIN, A.CURUTIU, S.DAGORET-CAMPAGNE, R.DALLIER, K.DAUMILLER, B.R.DAWSON, R.M.DE, ALMEIDA, M.DEDOMENICO, C.DEDONATO, S.J.DEJONG, G.DELAVEGA, W.J.M.DEMELLOJUNIOR, J. DEMELLONETO, DE MITRI I., V.DESOUZAM, K.D.DEVRIES, G.DECERPRIT, L.DELPERAL, O. DELIGNY, A.DELLASELVA, C.DELLEFRATTE, H.DEMBINSKI, C.DIGIULIO, J.C.DIAZ, M. CASTRO, P.N.DIEP, C.DOBIGKEIT, J.C.DOLIVO, P.N.DONG, A.DOROFEEV, J.C.DOSANJOS, M. DOVA,

D.DURSO, I.DUTAN, M.A.DUVERNOIS, J.EBR, R.ENGEI, M.ERDMANN, C. O, A.ETCHEGOYEN, P.FACALSLAUNIS, H.FALCKE, G.FARRAR, A.C.FAUTH, N.FAZZINI, A.FERRERO, B. FICK, A.FILEVICH, A.FILIPCIC, I.FLECK, S.FLIESCHER, C.E.FRACCHIOLLA, E.D.FRAENKEL, U. FROHLICH, W.FULGIONE, R.F.GAMARRA, S.GAMBETTA, B.GARCIA, D. GAMEZ, D.GARCIA-PINTO, X.GARRIDO, G.GELMINI, H.GEMMEKEAG, P.L.GHIA, U.GIACCARI, M.GILLER, H.GLASS, L. GOGGIN, M.S.GOLD, G.GOLUP, F.GOMEZALBARRACIN, M. BERISSO, P.GONC-ALVES, D. GONZALEZ, J.G.GONZALEZ, D.GORA, A.GORGI, P.GOUFFON, S.R.GOZZINI, E.GRASHORN, S. GREBE, M.GRIGAT, A.F.GRILLO, Y.GUARDINCERRI, F.GUARINO, G.P.GUEDES, J.D.HAGUE, V. HALENKA, P.HANSEN, D.HARARI, S.HARMSMA, J.L.HARTON, A.HAUNGS, T.HEBBEKER, D. HECK, A.E.HERVE, C.HOVAT, V.C.HOLMES, P.HOMOLA, J.R.H... (2010). **Measurement of the Depth of Maximum of Extensive Air Showers above  $10^{18}$  eV.** PHYSICAL REVIEW LETTERS, vol. 104; p. 091101-1-091101-7, ISSN: 0031-9007, doi: 10.1103/PhysRevLett.104.091101

J. ABRAHAM, P.ABREU, M.AGLIETTA, E.J.AHN, D.ALLARD, I.ALLEKOTTE, J.ALLEN, J.ALVAREZMUNIZ, M. AMBROSIO, LANCHORDOQUI, S.ANDRINGA, T.ANTICIC, A.ANZALONE, CARAMO, E.ARANDA, K. ARISAKA, F.ARQUEROS, H.ASOREY, P.ASSIS, J.AUBLIN, M.AVE, G.AVILA, T.BACKER, D. BADAGNANI, M.BALZER, K.B.BARBER, A.F.BARBOSA, S.L.C.BARROSO, B.BAUGHMAN, P.BAULEO, J. BEATTY, B.R.BECKER, K.H.BECKER, A.BELLETOILE, J.A.BELLIDO, S.BENZVI, C.BERAT, T. BERGMANN, X.BERTOU, P.L.BIERMANN, P.BILLOIR, O.BLANCH-BIGAS, F.BLANCO, M.BLANCO, C. BLEVE, H.BLUMER, M.BOHACOVA, D.BONCIOLI, C.BONIFAZI, R.BONINO, N.BORODAI, J. BRACK, P.BROGUEIRA, W.C.BROWN, R.BRUIJN, P.BUCHHOLZ, A.BUENO, R.E.BURTON, N. BUSCA, K.S.CABALLERO-MORA, L.CARAMETE, R.CARUSO, A.CASTELLINA, O.CATALANO, G. CATALDI, L.CAZON, R.CESTER, J.CHAUVIN, A.CHIAVASSA, J.A.CHINELLATO, A.CHOU, J. CHUDOBA, R.W.CLAY, E.COLOMBO, M.R.COLUCCIA, R.CONCEICAO, F.CONTRERAS, H.COOK, M. COOPER, J.COPPENS, A.CORDIER, U.COTTI, S.COUTU, C.E.COVAULT, A.CREUSOT, A.CRISS, J. CRONIN, A.CURUTIU, S.DAGORET-CAMPAGNE, R.DALLIER, K.DAUMILLER, B.R.DAWSON, R.M.DE, ALMEIDA, M.DEDOMENICO, C.DEDONATO, S.J.DEJONG, G.DELAVEGA, W.J.M.DEMELLOJUNIOR, J. DEMELLONETO, DE MITRI I., V.DESOUZAM, K.D.DEVRIES, G.DECERPRIT, L.DELPERAL, O. DELIGNY, A.DELLAELVA, C.DELLEFRATTE, H.DEMBINSKI, C.DIGIULIO, J.C.DIAZ, M. CASTRO, P.N.DIEP, C.DOBIGKEIT, J.C.DOLIVO, P.N.DONG, A.DOROFEEV, J.C.DOSANJOS, M. DOVA, D.DURSO, I.DUTAN, M.A.DUVERNOIS, J.EBR, R.ENGEI, M.ERDMANN, C. O, A.ETCHEGOYEN, P.FACALSLAUNIS, H.FALCKE, G.FARRAR, A.C.FAUTH, N.FAZZINI, A.FERRERO, B. FICK, A.FILEVICH, A.FILIPCIC, I.FLECK, S.FLIESCHER, C.E.FRACCHIOLLA, E.D.FRAENKEL, U. FROHLICH, W.FULGIONE, R.F.GAMARRA, S.GAMBETTA, B.GARCIA, D. GAMEZ, D.GARCIA-PINTO, X.GARRIDO, G.GELMINI, H.GEMMEKEAG, P.L.GHIA, U.GIACCARI, M.GILLER, H.GLASS, L. GOGGIN, M.S.GOLD, G.GOLUP, F.GOMEZALBARRACIN, M. BERISSO, P.GONC-ALVES, D. GONZALEZ, J.G.GONZALEZ, D.GORA, A.GORGI, P.GOUFFON, S.R.GOZZINI, E.GRASHORN, S. GREBE, M.GRIGAT, A.F.GRILLO, Y.GUARDINCERRI, F.GUARINO, G.P.GUEDES, J.D.HAGUE, V. HALENKA, P.HANSEN, D.HARARI, S.HARMSMA, J.L.HARTON, A.HAUNGS, T.HEBBEKER, D. HECK, A.E.HERVE, C.HOVAT, V.C.HOLMES, P.HOMOLA, J.R.H... (2010). **Measurement of the energy spectrum of cosmic rays above  $10^{18}$  eV using the Pierre Auger Observatory.** PHYSICS LETTERS. SECTION B, vol. 685; p. 239-246, ISSN: 0370-2693, doi: 10.1016/j.physletb.2010.02.013

4 2010 J. ABRAHAM, P.ABREU, M.AGLIETTA, E.J.AHN, D.ALLARD, I.ALLEKOTTE,

J.ALLEN, J.ALVAREZMUNIZ, M. AMBROSIO, L.ANCHORDOQUI, S.ANDRINGA, T.ANTICIC, A.ANZALONE, C.ARAMO, E.ARGANDA, K. ARISAKA, F.ARQUEROS, H.ASOREY, P.PASSIS, J.AUBLIN, M.AVE, G.AVILA, T.BACKER, D. BADAGNANI, M.BALZER, K.B.BARBER, A.F.BARBOSA, S.L.C.BARROSO, B.BAUGHMAN, P.BAULEO, J. BEATTY, B.R.BECKER, K.H.BECKER, A.BELLETOILE, J.A.BELLIDO, S.BENZVI, C.BERAT, T. BERGMANN, X.BERTOU, P.L.BIERMANN, P.BILLOIR, O.BLANCH-BIGAS, F.BLANCO, M.BLANCO, C. BLEVE, H.BLUMER, M.BOHACOVA, D.BONCIOLI, C.BONIFAZI, R.BONINO, N.BORODAI, J. BRACK, P.BROGUEIRA, W.C.BROWN, R.BRUIJN, P.BUCHHOLZ, A.BUENO, R.E.BURTON, N. BUSCA, K.S.CABALLERO-MORA, L.CARAMETE, R.CARUSO, A.CASTELLINA, O.CATALANO, G. CATALDI, L.CAZON, R.CESTER, J.CHAUVIN, A.CHIAVASSA, J.A.CHINELLATO, A.CHOU, J. CHUDOBA, R.W.CLAY, E.COLOMBO, M.R.COLUCCIA, R.CONCEICAO, F.CONTRERAS, H.COOK, M. COOPER, J.COPPENS, A.CORDIER, U.COTTI, S.COUTU, C.E.COVault, A.CREUSOT, A.CRISS, J. CRONIN, A.CURUTIU, S.DAGORET-CAMPAGNE, R.DALLIER, K.DAUMILLER, B.R.DAWSON, R.M.DE, ALMEIDA, M.DEDOMENICO, C.DEDONATO, S.J.DEJONG, G.DELAVEGA, W.J.M.DEMELLOJUNIOR, J. DEMELLONETO, DE MITRI I., V.DESOUZAM, K.D.DEVRIES, G.DECERPRIT, L.DELPERAL, O. DELIGNY, A.DELLASELVA, C.DELLEFRATTE, H.DEMBINSKI, C.DIGIULIO, J.C.DIAZ, M. CASTRO, P.N.DIEP, C.DOBIGKEIT, J.C.DOLIVO, P.N.DONG, A.DOROFEEV, J.C.DOSANJOS, M. DOVA, D.DURSO, I.DUTAN, M.A.DUVERNOIS, J.EBR, R.ENGEL, M.ERDMANN, C. O, A.ETCHEGOYEN, P.FACALSANLUIS, H.FALCKE, G.FARRAR, A.C.FAUTH, N.FAZZINI, A.FERRERO, B. FICK, A.FILEVICH, A.FILIPCIC, I.FLECK, S.FLIESCHER, C.E.FRACCHIOLLA, E.D.FRAENKEL, U. FROHLICH, W.FULGIONE, R.F.GAMARRA, S.GAMBETTA, B.GARCIA, D. GAMEZ, D.GARCIA-PINTO, X.GARRIDO, G.GELMINI, H.GEMMEKEAG, P.L.GHIA, U.GIACCARI, M.GILLER, H.GLASS, L. GOGGIN, M.S.GOLD, G.GOLUP, F.GOMEZALBARRACIN, M. BERISSO, P.GONC-ALVES, D. GONZALEZ, J.G.GONZALEZ, D.GORA, A.GORGI, P.GOUFFON, S.R.GOZZINI, E.GRASHORN, S. GREBE, M.GRIGAT, A.F.GRILLO, Y.GUARDINCERRI, F.GUARINO, G.P.GUEDES, J.D.HAGUE, V. HALENKA, P.HANSEN, D.HARARI, S.HARMSMA, J.L.HARTON, A.HAUNGS, T.HEBBEKER, D. HECK, A.E.HERVE, C.HOVAT, V.C.HOLMES, P.HOMOLA, J.R.H... (2010). **Trigger and aperture of the surface detector array of the Pierre Auger Observatory.**

**NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH. SECTION A,  
ACCELERATORS, SPECTROMETERS, DETECTORS AND ASSOCIATED EQUIPMENT,**  
**vol. 613; p. 29-39, ISSN: 0168-9002, doi: 10.1016/j.nima.2009.11.018**

J. ABRAHAM, P.ABREU, M.AGLIETTA, E.J.AHN, D.ALLARD, I.ALLEKOTTE, J.ALLEN, J.ALVAREZMUNIZ, M. AMBROSIO, L.ANCHORDOQUI, S.ANDRINGA, T.ANTICIC, A.ANZALONE, C.ARAMO, E.ARGANDA, K. ARISAKA, F.ARQUEROS, H.ASOREY, P.PASSIS, J.AUBLIN, M.AVE, G.AVILA, T.BACKER, D. BADAGNANI, M.BALZER, K.B.BARBER, A.F.BARBOSA, S.L.C.BARROSO, B.BAUGHMAN, P.BAULEO, J. BEATTY, B.R.BECKER, K.H.BECKER, A.BELLETOILE, J.A.BELLIDO, S.BENZVI, C.BERAT, T. BERGMANN, X.BERTOU, P.L.BIERMANN, P.BILLOIR, O.BLANCH-BIGAS, F.BLANCO, M.BLANCO, C. BLEVE, H.BLUMER, M.BOHACOVA, D.BONCIOLI, C.BONIFAZI, R.BONINO, N.BORODAI, J. BRACK, P.BROGUEIRA, W.C.BROWN, R.BRUIJN, P.BUCHHOLZ, A.BUENO, R.E.BURTON, N. BUSCA, K.S.CABALLERO-MORA, L.CARAMETE, R.CARUSO, A.CASTELLINA, O.CATALANO, G. CATALDI, L.CAZON, R.CESTER, J.CHAUVIN, A.CHIAVASSA, J.A.CHINELLATO, A.CHOU, J. CHUDOBA, R.W.CLAY, E.COLOMBO, M.R.COLUCCIA, R.CONCEICAO, F.CONTRERAS, H.COOK, M. COOPER, J.COPPENS, A.CORDIER, U.COTTI, S.COUTU, C.E.COVault, A.CREUSOT, A.CRISS, J. CRONIN, A.CURUTIU, S.DAGORET-CAMPAGNE, R.DALLIER, K.DAUMILLER,

B.R.DAWSON, R.M.DE, ALMEIDA, M.DEDOMENICO, C.DEDONATO, S.J.DEJONG, G.DELAVEGA, W.J.M.DEMELLOJUNIOR, J. DEMELLONETO, DE MITRI I., V.DESOUZAM, K.D.DEVRIES, G.DECERPRIT, L.DELPERAL, O. DELIGNY, A.DELLASELVA, C.DELLEFRATTE, H.DEMBINSKI, C.DIGIULIO, J.C.DIAZ, M. CASTRO, P.N.DIEP, C.DOBIGKEIT, J.C.DOLIVO, P.N.DONG, A.DOROFEEV, J.C.DOSANJOS, M. DOVA, D.DURSO, I.DUTAN, M.A.DUVERNOIS, J.EBR, R.ENGEL, M.ERDMANN, C. O, A.ETCHEGOYEN, P.FACALSANLUIS, H.FALCKE, G.FARRAR, A.C.FAUTH, N.FAZZINI, A.FERRERO, B. FICK, A.FILEVICH, A.FILIPCIC, I.FLECK, S.FLIESCHER, C.E.FRACCHIOLLA, E.D.FRAENKEL, U. FROHLICH, W.FULGIONE, R.F.GAMARRA, S.GAMBETTA, B.GARCIA, D. GAMEZ, D.GARCIA-PINTO, X.GARRIDO, G.GELMINI, H.GEMMEKEAG, P.L.GHIA, U.GIACCARI, M.GILLER, H.GLASS, L. GOGGIN, M.S.GOLD, G.GOLUP, F.GOMEZALBARRACIN, M. BERISSO, P.GONC-ALVES, D. GONZALEZ, J.G.GONZALEZ, D.GORA, A.GORGI, P.GOUFFON, S.R.GOZZINI, E.GRASHORN, S. GREBE, M.GRIGAT, A.F.GRILLO, Y.GUARDINCERRI, F.GUARINO, G.P.GUEDES, J.D.HAGUE, V. HALENKA, P.HANSEN, D.HARARI, S.HARMSMA, J.L.HARTON, A.HAUNGS, T.HEBBEKER, D. HECK, A.E.HERVE, C.HOVAT, V.C.HOLMES, P.HOMOLA, J.R.H... (2010).  
**The Northen Site of the Pierre Auger Observatory.** NEW JOURNAL OF PHYSICS, vol. 12; p. 035001-1-035001-21, ISSN: 1367-2630, doi: 10.1088/1367-2630/12/3/035001

J. ABRAHAM, P.ABREU, M.AGLIETTA, E.J.AHN, D.ALLARD, I.ALLEGOTTE, J.ALLEN, J.ALVAREZMUNIZ, M. AMBROSIO, L.ANCHORDOQUI, S.ANDRINGA, T.ANTICIC, A.ANZALONE, CARAMO, E.ARANDA, K. ARISAKA, F.ARQUEROS, H.ASOREY, PASSIS, J.AUBLIN, M.AVE, G.AVILA, T.BACKER, D. BADAGNANI, M.BALZER, K.B.BARBER, A.F.BARBOSA, S.L.C.BARROSO, B.BAUGHMAN, P.BAULEO, J. BEATTY, B.R.BECKER, K.H.BECKER, A.BELLETOILE, J.A.BELLIDO, S.BENZVI, C.BERAT, T. BERGMANN, X.BERTOU, P.L.BIERMANN, P.BILLOIR, O.BLANCH-BIGAS, F.BLANCO, M.BLANCO, C. BLEVE, H.BLUMER, M.BOHACOVA, D.BONCIOLI, C.BONIFAZI, R.BONINO, N.BORODAI, J. BRACK, P.BROGUEIRA, W.C.BROWN, R.BRUIJN, P.BUCHHOLZ, A.BUENO, R.E.BURTON, N. BUSCA, K.S.CABALLERO-MORA, L.CARAMETE, R.CARUSO, A.CASTELLINA, O.CATALANO, G. CATALDI, L.CAZON, R.CESTER, J.CHAUVIN, A.CHIAVASSA, J.A.CHINELLATO, A.CHOU, J. CHUDOBA, R.W.CLAY, E.COLOMBO, M.R.COLUCCIA, R.CONCEICAO, F.CONTRERAS, H.COOK, M. COOPER, J.COPPENS, A.CORDIER, U.COTTI, S.COUTU, C.E.COVAULT, A.CREUSOT, A.CRISS, J.CRONIN, A.CURUTIU, S.DAGORET-CAMPAGNE, R.DALLIER, K.DAUMILLER, B.R.DAWSON, R.M.DE, ALMEIDA, M.DEDOMENICO, C.DEDONATO, S.J.DEJONG, G.DELAVEGA, W.J.M.DEMELLOJUNIOR, J. DEMELLONETO, DE MITRI I., V.DESOUZAM, K.D.DEVRIES, G.DECERPRIT, L.DELPERAL, O. DELIGNY, A.DELLASELVA, C.DELLEFRATTE, H.DEMBINSKI, C.DIGIULIO, J.C.DIAZ, M. CASTRO, P.N.DIEP, C.DOBIGKEIT, J.C.DOLIVO, P.N.DONG, A.DOROFEEV, J.C.DOSANJOS, M. DOVA, D.DURSO, I.DUTAN, M.A.DUVERNOIS, J.EBR, R.ENGEL, M.ERDMANN, C. O, A.ETCHEGOYEN, P.FACALSANLUIS, H.FALCKE, G.FARRAR, A.C.FAUTH, N.FAZZINI, A.FERRERO, B. FICK, A.FILEVICH, A.FILIPCIC, I.FLECK, S.FLIESCHER, C.E.FRACCHIOLLA, E.D.FRAENKEL, U. FROHLICH, W.FULGIONE, R.F.GAMARRA, S.GAMBETTA, B.GARCIA, D. GAMEZ, D.GARCIA-PINTO, X.GARRIDO, G.GELMINI, H.GEMMEKEAG, P.L.GHIA, U.GIACCARI, M.GILLER, H.GLASS, L. GOGGIN, M.S.GOLD, G.GOLUP, F.GOMEZALBARRACIN, M. BERISSO, P.GONC-ALVES, D. GONZALEZ, J.G.GONZALEZ, D.GORA, A.GORGI, P.GOUFFON, S.R.GOZZINI, E.GRASHORN, S. GREBE, M.GRIGAT, A.F.GRILLO, Y.GUARDINCERRI, F.GUARINO, G.P.GUEDES, J.D.HAGUE, V. HALENKA, P.HANSEN, D.HARARI, S.HARMSMA, J.L.HARTON, A.HAUNGS, T.HEBBEKER, D. HECK, A.E.HERVE, C.HOVAT, V.C.HOLMES, P.HOMOLA, J.R.H... (2010).  
**A Study of the Effect of Molecular and Aerosol Conditions in the Atmosphere on Air**

**Fluorescence Measurements at the Pierre Auger Observatory. ASTROPARTICLE PHYSICS, vol. 33; p. 108-129, ISSN: 0927-6505, doi: 10.1016/j.astropartphys.2009.12.005**

J. ABRAHAM, P. ABREU, M. AGLIETTA, C. AGUIRRE, E. J.AHN, D. ALLARD, I. ALLEKOTTE, J. ALLEN, P. ALLISON, J. ALVAREZ-MUNIZ, M. AMBROSIO, L. ANCHORDOQUI, S. ANDRINGA, A. ANZALONE, C. ARAMO, E. ARGANDA, S. ARGIR, K. ARISAKA, F. ARNEODO, F. ARQUEROS, T. ASCH, H. ASOREY, P. ASSIS, J. AUBLIN, M. AVE, G. AVILA, A. BACHER, T. BACKER, D. BADAGNANI, K. B.BARBER, A. F. BARBOSA, H. J. M. BARBOSA, N. BARENTHIEN, S.L.C. BARROSO, B. BAUGHMAN, P. BAULEO, J.J. BEATTY, T. BEAU, B.R. BECKER, K.H. BECKER, A. BELLETOILE, J.A. BELLIDO, S. BENZVI, C. BERAT, P. BERNARDINI, X. BERTOU, P.L. BIERMANN, P. BILLOIR, O. BLANCH-BIGAS, F. BLANCO, C. BLEVE, H. BLUMER, M. BOHACOVA, E. BOLLMANN, H. BOLZ, C. BONIFAZI, R. BONINO, N. BORODAI, F. BRACCI, J. BRACK, P. BROGUEIRA, W.C. BROWN, R. BRUIJN, P. BUCHHOLZ, A. BUENO, R.E. BURTON, N.G. BUSCA, K.S. CABALLERO-MORA, D. CAMIN, L. CARAMETE, R. CARUSO, W. CARVALHO, A. CASTELLINA, J. CASTRO, O. CATALANO, L. CAZON, R. CESTER, J. CHAUVIN, A. CHIAVASSA, J.A. CHINELLATO, A. CHOU, J. CHUDOBA, J. CHYE, P.D.J. CLARK, R.W. CLAY, E. COLOMBO, R. CONCEICAO, B. CONNOLLY, F. CONTRERAS, J. COPPENS, A. CORDERO, A. CORDIER, U. COTTI, S. COUTU, C.E. COVAULT, A. CREUSOT, A. CRISS, J.W. CRONIN, J. CUAUTLE, A. CURUTIU, S. DAGORET-CAMPAGNE, R. DALLIER, F. DAUDO, K. DAUMILLER, B.R. DAWSON, R.M. DE ALMEIDA, M. DE DOMENICO, C. DE DONATO, S.J. DE JONG, G. DE LA VEGA, W.J.M. DE MELLO JUNIOR, J.R.T. DE MELLO NETO, DE MITRI I., V. DE SOUZA, K.D. DE VRIES, G. DECERPRIT, L. DEL PERAL, O. DELIGNY, A. DELLA SELVA, C. DELLE FRATTE, H. DEMBINSKI, C. DI GIULIO, J.C. DIAZ, P.N. DIEP, C. DOBRIGKEIT, J.C. D', OLIVO, P.N. DONG, D. DORNIC, A. DOROFEEV, J.C. DOS ANJOS, M.T. DOVA, D. D', URSO, I. DUTAN, M.A. DU VERNOIS, R. ENGEL, M. ERDMANN, C.O. ESCOBAR, A. ETCHEGOYEN, P. FACAL SAN LUIS, H. FALCKE, G. FARRAR, A.C. FAUTH, N. FAZZINI, F. FERRER, A. FERRERO, B. FICK, A. FILEVICH, A. FILIPCIC, I. FLECK, S. FLIESCHER, R. FONTE, C.E. FRACCHIOLLA, E.D. FRAENKEL, W. FULGIONE, R.F. GAMA RRA, S. GAMBETTA, B. GARCÝA, D. GARCÝA GAMEZ, D. GARCIA-PINTO, X. GARRIDO, H. GEENEN, G. GELMINI, H. GEMMEKEAI, P.L. GHIA, U. GIACCARI, K. GIBBS, M. GILLER, J. GITTO... (2010). **The Fluorescence Detector of the Pierre Auger Observatory. NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH. SECTION A, ACCELERATORS, SPECTROMETERS, DETECTORS AND ASSOCIATED EQUIPMENT, vol. 620, Issue 2-3; p. 227-251, ISSN: 0168-9002**

8 2010 P. ABREU, M. AGLIETTA, E.J. AHN, D. ALLARD, I. ALLEKOTTE, J. ALLEN, J. ALVAREZ CASTILLO, J. ALVAREZ-MUÑIZ, M. AMBROSIO, A. AMINAEI, L. ANCHORDOQUI, S. ANDRINGA, T. ANTICIC, A. ANZALONE, C. ARAMO, E. ARGANDA, K. ARISAKA, F. ARQUEROS, H. ASOREY, P. ASSIS, J. AUBLIN, M. AVE, M. AVENIER, G. AVILA, T. BÄCKER, D. BADAGNANI, M. BALZER, K.B. BARBER, A.F. BARBOSA, R. BARDENET, S.L.C. BARROSO, B. BAUGHMAN, J.J. BEATTY, B.R. BECKER, K.H. BECKER, A. BELLETOILE, J.A. BELLIDO, S. BENZVI, C. BERAT, T. BERGMANN, X. BERTOU, P.L. BIERMANN, P. BILLOIR, F. BLANCO, M. BLANCO, C. BLEVE, H. BLÜMER, M. BOHÁCOVÁ, D. BONCIOLI, C. BONIFAZI, R. BONINO, N. BORODAI, J. BRACK, P. BROGUEIRA, W.C. BROWN, R. BRUIJN, P. BUCHHOLZ, A. BUENO, R.E. BURTON, N.G. BUSCA, K.S. CABALLERO-MORA, L. CARAMETE, R. CARUSO, A. CASTELLINA, O. CATALANO, G. CATALDI, L. CAZON, R. CESTER, J. CHAUVIN, A. CHIAVASSA, J.A. CHINELLATO, A. CHOU, J. CHUDOBA, R.W. CLAY, E. COLOMBO, M.R. COLUCCIA, R. CONCEIÇÃO, F. CONTRERAS, H. COOK, M.J. COOPER, J. COPPENS, A. CORDERO, U. COTTI, S. COUTU, C.E. COVAULT, A. CREUSOT, A. CRISS, J. CRONIN, A. CURUTIU, S.

DAGORET-CAMPAGNE, R. DALLIER, S. DASSO, K. DAUMILLER, B.R. DAWSON, R.M. DE ALMEIDA, M. DE DOMENICO, C. DE DONATO, S.J. DE JONG, G. DE LA VEGA, W.J.M. DE MELLO JUNIOR, J.R.T. DE MELLO NETO, DE MITRI I., V. DE SOUZA, K.D. DE VRIES, G. DECERPRIT, L. DEL PERAL, O. DELIGNY, A. DELLA SELVA, H. DEMBINSKI, A. DENKIEWICZ, C. DI GIULIO, J.C. DIAZ, M.L. DÍAZ CASTRO, P.N. DIEP, C. DOBRIGKEIT, J.C. D'OLIVO, P.N. DONG, A. DOROFEEV, J.C. DOS ANJOS, M.T. DOVA, D. D'URSO, I. DUTAN, J. EBR, R. ENGEL, M. ERDMANN, C.O. ESCOBAR, A. ETCHEGOYEN, P. FACAL SAN LUIS, H. FALCKE, G. FARRAR, A.C. FAUTH, N. FAZZINI, A.P. FERGUSON, A. FERRERO, B. FICK, A. FILEVICH, A. FILIPCIC, I. FLECK, S. FLIESCHER, C.E. FRACCHIOLLA, E.D. FRAENKEL, U. FRÖHLICH, B. FUCHS, W. FULGIONE, R.F. GAMARRA, S. GAMBETTA, B. GARCÍA, D. GARCÍA GÁMEZ, D. GARCIA-PINTO, X. GARRIDO, A. GASCON, G. GELMINI, H. GEMMEKE, K. GESTERLING, P.L. GHIA, U. GIACCARI, M. GILLER, H. GLASS, L.M. GOGGIN, M.S. GOLD, G. GOLUP, F. GOMEZ ALBARRACIN, M. GÓMEZ BERISSO, P. GONÇALVES, D. GONZALEZ, J.G. GONZALEZ, B. GOOKIN, D. GÓRA, A. ... (2010). **Update on the correlation of the highest energy cosmic rays with nearby extragalactic matter.** ASTROPARTICLE PHYSICS, vol. 34; p. 314-326, ISSN: 0927-6505

9 2010 P. ABREU, M. AGLIETTA, E.J. AHN, D. ALLARD, I. ALLEKOTTE, J. ALLEN, J. ALVAREZ CASTILLO, J. ALVAREZ-MUÑIZ, M. AMBROSIO, A. AMINAEI, L. ANCHORDOQUI, S. ANDRINGA, T. ANTICIC, A. ANZALONE, C. ARAMO, E. ARGANDA, K. ARISAKA, F. ARQUEROS, H. ASOREY, P. ASSIS, J. AUBLIN, M. AVE, M. AVENIER, G. AVILA, T. BÄCKER, D. BADAGNANI, M. BALZER, K.B. BARBER, A.F. BARBOSA, R. BARDENET, S.L.C. BARROSO, B. BAUGHMAN, J.J. BEATTY, B.R. BECKER, K.H. BECKER, A. BELLÉTOILE, J.A. BELLIDO, S. BENZVI, C. BERAT, T. BERGMANN, X. BERTOU, P.L. BIERMANN, P. BILLOIR, F. BLANCO, M. BLANCO, C. BLEVE, H. BLÜMER, M. BOHÁCOVÁ, D. BONCIOLI, C. BONIFAZI, R. BONINO, N. BORODAI, J. BRACK, P. BROGUEIRA, W.C. BROWN, R. BRUIJN, P. BUCHHOLZ, A. BUENO, R.E. BURTON, N.G. BUSCA, K.S. CABALLERO-MORA, L. CARAMETE, R. CARUSO, A. CASTELLINA, O. CATALANO, G. CATALDI, L. CAZON, R. CESTER, J. CHAUVIN, A. CHIAVASSA, J.A. CHINELLATO, A. CHOU, J. CHUDOBA, R.W. CLAY, E. COLOMBO, M.R. COLUCCIA, R. CONCEIÇÃO, F. CONTRERAS, H. COOK, M.J. COOPER, J. COPPENS, A. CORDIER, U. COTTI, S. COUTU, C.E. COVAULT, A. CREUSOT, A. CRISS, J. CRONIN, A. CURUTIU, S.

DAGORET-CAMPAGNE, R. DALLIER, S. DASSO, K. DAUMILLER, B.R. DAWSON, R.M. DE ALMEIDA, M. DE DOMENICO, C. DE DONATO, S.J. DE JONG, G. DE LA VEGA, W.J.M. DE MELLO JUNIOR, J.R.T. DE MELLO NETO, DE MITRI I., V. DE SOUZA, K.D. DE VRIES, G. DECERPRIT, L. DEL PERAL, O. DELIGNY, A. DELLA SELVA, H. DEMBINSKI, A. DENKIEWICZ, C. DI GIULIO, J.C. DIAZ, M.L. DÍAZ CASTRO, P.N. DIEP, C. DOBRIGKEIT, J.C. D'OLIVO, P.N. DONG, A. DOROFEEV, J.C. DOS ANJOS, M.T. DOVA, D. D'URSO, I. DUTAN, J. EBR, R. ENGEL, M. ERDMANN, C.O. ESCOBAR, A. ETCHEGOYEN, P. FACAL SAN LUIS, H. FALCKE, G. FARRAR, A.C. FAUTH, N. FAZZINI, A.P. FERGUSON, A. FERRERO, B. FICK, A. FILEVICH, A. FILIPCIC, I. FLECK, S. FLIESCHER, C.E. FRACCHIOLLA, E.D. FRAENKEL, U. FRÖHLICH, B. FUCHS, W. FULGIONE, R.F. GAMARRA, S. GAMBETTA, B. GARCÍA, D. GARCÍA GÁMEZ, D. GARCIA-PINTO, X. GARRIDO, A. GASCON, G. GELMINI, H. GEMMEKE, K. GESTERLING, P.L. GHIA, U. GIACCARI, M. GILLER, H. GLASS, L.M. GOGGIN, M.S. GOLD, G. GOLUP, F. GOMEZ ALBARRACIN, M. GÓMEZ BERISSO, P. GONÇALVES, D. GONZALEZ, J.G. GONZALEZ, B. GOOKIN, D. GÓRA, A. ... (2010). **The exposure of the hybrid detector of the Pierre Auger Observatory.** ASTROPARTICLE PHYSICS, vol. in corso di stampa; p. in corso di stampa-in corso di, ISSN: 0927-6505

**I. De Mitri et al.**, Measurement of the proton-air cross section with ARGO-YBJ. NUCLEAR PHYSICS. B, vol. 196; p. 325-328, ISSN: 0550-3213 **(2009)**.

**I. De Mitri et al.**, Proton-air cross section measurement with the ARGO-YBJ cosmic ray experiment. PHYSICAL REVIEW D, PARTICLES, FIELDS, GRAVITATION, AND COSMOLOGY, vol. 80; p. 092004-1-092004-14, ISSN: 1550-7998 **(2009)**.

**I. De Mitri et al.**, ARGO-YBJ constraints on very high energy emission from GRBs.

ASTROPARTICLE PHYSICS, vol. 32; p. 47-52, ISSN: 0927-6505 **(2009)**.

**I. De Mitri et al.**, 4 2009 G. Temperature effect on RPC performance in the ARGO-YBJ experiment. NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH. SECTION A, ACCELERATORS, SPECTROMETERS, DETECTORS AND ASSOCIATED EQUIPMENT, vol. 608; p. 246-250, ISSN: 0168-9002 **(2009)**.

**I. De Mitri et al.**, Software Timing Calibration of the ARGO-YBJ Detector. ASTROPARTICLE PHYSICS, vol. 30; p. 287-292, ISSN: 0927-**6505** **(2009)**

**I. De Mitri et al.**, Search for Gamma Ray Bursts with the ARGO-YBJ detector in scaler mode. THE ASTROPHYSICAL JOURNAL, vol. 699; p. 1281-1287, ISSN: 0004-637X **(2009)**

**I. De Mitri et al.**, Upper limit on the cosmic-ray photon fraction at EeV energies from the Pierre Auger Observatory. ASTROPARTICLE PHYSICS, vol. 31; p. 399-406, ISSN: 0927-**6505** **(2009)**

**I. De Mitri et al.**, Atmospheric effects on extensive air showers observed with the Surface Detector of the Pierre Auger Observatory. ASTROPARTICLE PHYSICS, vol. 32; p. 89-99, ISSN: 0927-**6505** **(2009)**

**I. De Mitri et al.**, Limit on the diffuse flux of ultrahigh energy tau neutrinos with the surface detector of the Pierre Auger Observatory. PHYSICAL REVIEW D, PARTICLES, FIELDS, GRAVITATION, AND COSMOLOGY, vol. 79; p. 102001-1-**102001-15**, **(2009)**.

**I. De Mitri et al.**, Automatic analysis of medial temporal lobe atrophy from structural MRIs for the early assessment of Alzheimer disease. MEDICAL PHYSICS, vol. 36; p. 3737-3747, **(2009)**

**I. De Mitri et al.**, Upper limit on the diffuse flux of UHE tau neutrinos from the Pierre Auger Observatory. PHYSICAL REVIEW LETTERS, vol. 100; p. 211101-1-211101-7, ISSN: 0031-9007 **(2008)**.

**I. De Mitri et al.**, Scaler mode technique for the ARGO-YBJ detector. ASTROPARTICLE PHYSICS, vol. 30; p. 85-95, ISSN: 0927-6505 **13 (2008)**

**I. De Mitri et al.**, Astroparticle and Neutrino Physics. IL NUOVO CIMENTO DELLA SOCIETÀ ITALIANA DI FISICA. B, vol. 123; p. 869-876, ISSN: 1826-**9877** **(2008)**

**I. De Mitri et al.**, Scaler Mode Technique for the ARGO-YBJ detector. ASTROPARTICLE PHYSICS, vol. 30; p. 85-95, ISSN: 0927-**6505**, **(2008)**

**I. De Mitri et al.**, Upper Limit on the Diffuse Flux of Ultrahigh Energy Tau Neutrinos from the Pierre Auger Observatory. PHYSICAL REVIEW LETTERS, vol. 100; p. 211101-1-211101-7 **(2008)**

**I. De Mitri et al.**, Observation of the suppression of the flux of cosmic rays above  $4 \times 10^{19}$  eV. PHYSICAL REVIEW LETTERS, vol. 101; p. 061101-1-061101-7, ISSN: 0031-**9007** **(2008)**

**I. De Mitri et al.**, Correlation of the highest-energy cosmic rays with the positions of nearby active galactic nuclei. ASTROPARTICLE PHYSICS, vol. 29; p. 188-**204 (2008)**

**I. De Mitri et al.**, Upper limit on the cosmic-ray photon flux above  $10^{19}$  eV using the surface detector of the Pierre Auger Observatory. ASTROPARTICLE PHYSICS, vol. 29; p. 243-256, **(2008)**

**I. De Mitri et al.**, Correlation of the highest energy cosmic rays with nearby extragalactic objects. SCIENCE, vol. 318; p. 938-**943, (2007)**

**I. De Mitri et al.**, ON BEHALF OF THE ARGO-YBJ COLLABORATION (2007). ARGO-YBJ:

Status and First results. NUCLEAR PHYSICS B-PROCEEDINGS SUPPLEMENTS, vol. 165;

p. 66-73, ISSN: 0920-**5632 (2007)**

**I. De Mitri et al.**, The status of the ARGO experiment at YBJ. NUCLEAR PHYSICS B-PROCEEDINGS SUPPLEMENTS, vol. 166; p. 96-102, ISSN: 0920-**5632 (2007)**

**I. De Mitri et al.**, Comparative Study of Feature classification Methods for Mass Lesion Recognition in Digitized Mammograms. NUOVO CIMENTO DELLA SOCIETÀ ITALIANA DI FISICA. C, GEOPHYSICS AND SPACE PHYSICS, vol. 30; p. 305-316, ISSN: 1826-**9885 (2007)**

**I. De Mitri et al.**, Multiscale analysis of lung computed tomography images. JOURNAL OF INSTRUMENTATION, vol. 2; p. P09007-1-P09007-17, ISSN: 1748-**0221 (2007)**

**I. De Mitri et al.**, An upper limit to the photon fraction in cosmic rays above  $10^{19}$  eV from the Pierre Auger Observatory. ASTROPARTICLE PHYSICS, vol. 27; p. 155-168, ISSN: 0927-6505 **(2007)**

**I. De Mitri et al.**, Anisotropy studies around the Galactic Centre at EeV energies with the Auger Observatory. ASTROPARTICLE PHYSICS, vol. 27; p. 244-253, ISSN: 0927-6505, **(2007)**

**I. De Mitri et al.**, Correlation of the highest energy cosmic rays with nearby extragalactic objects. SCIENCE, vol. 318; p. 938-943, ISSN: 0036-**8075 (2007)**

**I. De Mitri et al.**, Distributed medical images analysis on a Grid infrastructure. FUTURE GENERATION COMPUTER SYSTEMS, vol. 23; p. 475-484, **(2007)**

**I. De Mitri et al.**, A CAD system for nodule detection in low-dose lung CTs based on Region Growing and a new Active Contour Model. MEDICAL PHYSICS, vol. 34; p. 4901-4910, ISSN: 0094-2405 **(2007)**

**I. De Mitri et al.**, A completely automated CAD system for mass detection in a large mammographic database. MEDICAL PHYSICS, vol. 33 (8); p. 3066-3075, ISSN: 0094-2405 **(2006)**

**I. De Mitri et al.**, Performance of a Liquid Argon Time Projection Chamber exposed to the WANF Neutrino Beam. PHYSICAL REVIEW D, vol. 74; p.112001-1-112001-**13 (2006)**

**I. De Mitri et al.**, Layout and performance of RPCs used in the ARGO-YBJ experiment. NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH. SECTION A, ACCELERATORS, SPECTROMETERS, DETECTORS AND ASSOCIATED EQUIPMENT, vol. 562; p. 92-96, **(2006)**

**I. De Mitri et al.**, Dissimilarity Application in Digitized Mammographic Images

Classification. JOURNAL OF SYSTEMICS, CYBERNETICS AND INFORMATICS, vol. 4; p. 18-22 (**2006**)

**F. De Paolis et al.** : Monte Carlo analysis of Mega microlensing events towards M31, Astronomy and Astrophysics 445, 375, **2006**

**F. De Paolis et al.**: Gravitational wave scintillation by a stellar cluster, International Journal of Modern Physics D 15, 1937, **2006**

**F. De Paolis et al.** : Solar system constraints on  $R^n$  gravity, Phys. Rev. D 74, 107101, 2006

**F. De Paolis et al.**, An XMM Search for X-Ray Emission from the Microlensing Event MACHO-96-BLG-5, Astrophysical Journal 651, 1092, **2006**

**F. De Paolis et al.** : A new analysis of the MEGA M31 microlensing events, Astronomy and Astrophysics 462, 895, **2007**

**F. De Paolis et al.** : The S2-SgrA\* system as a laboratory to measure the SgrA\* black hole-cluster parameters, PASP 119, 349, 2007

**F. De Paolis et al.**, Centrifugal force induced collapse of strange stars into black holes, IJMP D 16, 827, **2007**

**F. De Paolis et al.** : Probing MACHOs by observation of M31 pixel lensing with the 1.5m Loiano Telescope, Astronomy and Astrophysics 469, 115, **2007**

**F. De Paolis et al.**, Apoastron shift constraints on dark matter distribution at the Galactic Center, Phys. Rev. D 76, 062001, **2007**

**F. De Paolis et al.** : Searches of extrasolar planets towards M31 by gravitational pixel-lensing, Nuovo Cimento B 122, 471, **2007**

**F. De Paolis et al.**, Relativistic effects at the galactic center, Nuovo Cimento B 122, 537, 2007

**F. De Paolis et al.** :Conversion of an extreme Reissner\_Nordstrom black hole to a naked singularity, Nuovo Cimento B 122, 569, **2007**

**F. De Paolis et al.** : Planets around pulsars: formation and evolution, Nuovo Cimento B 122, 585, **2007**

**F. De Paolis et al.**, Ingrosso, A.A. Nucita: Solar System constraints on alternative theories of gravity, Nuovo Cimento B 122, 607, **2007**

**F. De Paolis et al.** : Fresnel's diffraction and scintillation of gravitational waves, Nuovo Cimento B 122, 611, **2007**

**F. De Paolis et al.**, Gravitational waves from hyperbolic encounters, Mod. Phys. Lett. A 23, 99, **2008**.

**F. De Paolis et al.** : XMM-Newton and Chandra observations of the globular cluster NGC 6388,

Astronomy and Astrophysics 478, 763, **2008**

**F. De Paolis et al.** : Studies of strong gravitational fields near super-massive black hole horizons with space missions, Advances in Space Research 41, 2061, **2008**

**F. De Paolis et al.** : A serendipitous XMM-Newton observation of MACHO 104.20906.960: a dwarf nova candidate with a 2h period, New Astronomy 14, 302, **2009**

**F. De Paolis et al.** : Candidate microlensing events from M31 observations with the Loiano telescope, Astrophysical Journal 695, 442, **2009**

**F. De Paolis et al**, : The X-ray eclipse of the dwarf nova HT CAS observed by the XMM-Newton sattellite: spectral and timing analysis, *Astronomy and Astrophysics* 504, 973, **2009**

**F. De Paolis et al**, : Pixel-lensing as a way to detect extrasolar planets in M31, *MNRAS* 399, 219, **2009**

**F. De Paolis et al**, The Role of Dark Matter and Dark Energy in Cosmological Models: Theoretical Overview, *Space Science Reviews* 0038-6308, 1, 2009

**F. De Paolis et al**, : Black Holes in Bulk Viscous Cosmology, *Int J Theor Phys.* 49, 621- 632 ( DOI 10.1007/s10773-009-0242-4), **2010**

**F. De Paolis et al**, : SMBHBs as relics of galaxy encounters: the 3C66B example, Proceedings of the meeting “The Dusty and Molecular Universe: A Prelude to Herschel and ALMA”, Paris, France, **October 27-29, 2004** (Eds.: A. Wilson), *ESA Conference Series* SP-577, p.279

**F. De Paolis et al**, : Observational features of black holes, Proceedings of the meeting “27th International Workshop on Fundamental Problems of High-Energy Physics and Field Theory: Black Holes on Earth and in Space (HEPFT 2004): Ideas and Facts”, Protvino, **Moscow (23-25 Jun 2004)**

**F. De Paolis et al**, : The forthcoming Radioastron Mission as a tool for GR tests in the strong gravitational field limit, *Proceedings of the 36th COSPAR Scientific Assembly*, 16 - 23 July **2004, Beijing**, China, p.1042

**F. De Paolis et al**, : Studies of signatures of black hole existence with space missions, *Proceedings of the 36th COSPAR Scientific Assembly*, 16 - 23 July 2004, Beijing, China, p.1047

**F. De Paolis et al**,: The Radioastron as a tool with the highest angular resolution in radio band: Astrophysical applications, *Proceedings of the 36th COSPAR Scientific Assembly*, 16 - 23 July **2004, Beijing**, China, p.1620

**F. De Paolis et al**, : Studies of the strong gravitational fields near supermassive black hole horizons with space missions, *Proceedings of the 36th COSPAR Scientific Assembly*, 16 - 23 July **2004, Beijing**, China, p.1621

**F. De Paolis et al**, : Shadow shapes around the black hole in the galactic centre, in “Dark Matter in Astro- and Particle Physics” (DARK 2004), Eds. H. V. Klapadör-Kleingrothaus e R. Arnowitt, Springer, pag. 77 (Proceedings of the International Conference DARK **2004, 03-09 Oct 2004**)

**F. De Paolis et al**, : Shadows (mirages) around black holes and retro gravitational lensing, *Proceedings of the 22nd Texas Symposium on Relativistic Astrophysics at Stanford University, Stanford, California (13-17 Decm 2004)*

**F. De Paolis et al**, : Observing black holes, *Proceedings of the XI Regional Conference on Mathematical Physics* (Eds. S. Rahvar, N. Sedooghi, F. Shoyai), World Scientific, 2005

**F. De Paolis et al**, : Retro gravitational lensing for Sgr A\* with Radioastron, *AIP Conference Proceedings*, Vol. 751, pag. 227, **2005**

**F. De Paolis et al**, : Periodic lightcurves and massive black hole binary systems: possible targets for LISA and ASTROD space interferometers, *Proceedings Bremen Conference*, 2005, in press on *Gen. Rel. Grav.*, **2006**

**F. De Paolis et al**, : Emission of gravitational waves from binary systems in the galactic center and diffraction by star clusters, *Proceedings of the Second International ASTROD Symposium on Laser-Astrodynamicics, Space Tests of Relativity and Gravitatioanl Wave Astronomy*, June

2-3 2005, Bremen, Germany, to be published, Springer, **2006**

**F. De Paolis et al.**, : New trends in astrophysics, Proceedings of the 30<sup>th</sup> International Nathiagali Summer College, eds. M.J. Aslam, A. Qadir and Riazuddin, NCP Press, **2006**

**F. De Paolis et al.**, : XMM Search For X-Rays From MACHO-96-BLG-5 Black Hole Candidate, Proceedings of the 26th meeting of the IAU "Neutron Stars and Black Holes in Star Clusters", 17-18 August 2006, Prague, Czech Republic, **2006**

**F. De Paolis et al.**, Measuring the supermassive black hole parameters with space missions, Proceedings of the International Astronomical Union. Symposium no. 238 "Black Holes: From Stars to Galaxies - Across the Range of Masses", 21-25 August 2006, Prague, Czech Republic, **2006**

**F. De Paolis et al.**, : Dark Matter and Dark Energy or Alternative Theories of Gravity and Cosmology, Relativistic Astrophysics: 4th Italian-Sino Workshop, AIP Conference Proceedings Vol. 966, pag. **173, 2008**

**F. De Paolis, M. Jamil, A. Qadir**: Black Holes in Bulk Viscous Cosmology, International Journal of Theoretical Physics 49, 621- 632, 2010

S. Calchi Novati, M. Dall'Ora, A. Gould, V. Bozza, I. Bruni, F. De Paolis, M. Dominik, R. Gualandi, G. Ingrosso, Ph. Jetzer, A. Nucita, , G. Scarpetta, M. Sereno, F. Strafella: M31 pixel lensing event OAB-N2: a study of the lens proper motion, Astrophysical Journal 717, 987-994, 2010

A.F. Zakharov, F. De Paolis, G. Ingrosso, A.A. Nucita: Constraints on parameters of dark matter and black hole in the Galactic Center, Physics of Atomic Nuclei 73, 1870-1877, 2010

**A.F. Zakharov, S. Calchi Novati, F. De Paolis, G. Ingrosso, Ph. Jetzer, A.A. Nucita**: Exoplanet searches with gravitational microlensing. In: Memorie della Societa Astronomica Italiana Supplement. Platamonas, Greece, September 3-8, 2009, Bologna: Societa' Astronomica Italiana, vol. 15, p. 114-125, 2010

**F. De Tomasi et al.**, "Observed and simulated vertically resolved optical properties of continental aerosols over southeastern Italy: A closure study", JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES,112,10.1029/2006JD007926, **2007**

**F. De Tomasi et al.**, "AERONET versus MODIS aerosol parameters at different spatial resolutions over southeast Italy", JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES, 112, DI 10.1029/2006JD007742, **2007**

**F. De Tomasi et al.**, "Moderate resolution Imaging spectroradiometer (MODIS) and aerosol robotic network (AERONET) retrievals during dust outbreaks over the Mediterranean", JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES, 112,DI 10.1029/2007JD008482, **2007**

**F. De Tomasi et al.**, "Annual cycle of aerosol direct radiative effect over southeast Italy and sensitivity studies", JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES, 112, **2007**, DI 10.1029/2006JD008265

**F. De Tomasi et al.**, "PBL and dust layer seasonal evolution by lidar and radiosounding measurements over a peninsular site", ATMOSPHERIC RESEARCH,80,86-103, **2006**

**F. De Tomasi et al.**, "Height and seasonal dependence of aerosol optical properties over southeast Italy", JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES,111, **2006**, 10.1029/2005JD006779

**F. De Tomasi et al.**, "Saharan dust particle properties over the central Mediterranean", ATMOSPHERIC RESEARCH, 81, 67-93, **2006**  
**F. De Tomasi et al.**, "Modeling of Saharan dust outbreaks over the Mediterranean by RegCM3: case studies", ATMOSPHERIC CHEMISTRY AND PHYSICS, 10, 133-156, **2010**

**F. De Tomasi et al.**, "Detection of Sahara dust intrusions during mixed advection patterns over south-east Italy: A case study", ATMOSPHERIC RESEARCH, 92, 489-504, **2009**

**F. De Tomasi et al.**, "Advection patterns and aerosol optical and microphysical properties by AERONET over south-east Italy in the central Mediterranean", ATMOSPHERIC CHEMISTRY AND PHYSICS, 8, 1881-1896, **2008**

**F. De Tomasi et al.**, "In situ Samplings and remote sensing measurements to characterize aerosol properties over southeast Italy" JOURNAL OF ATMOSPHERIC AND OCEANIC TECHNOLOGY, 25, 1341-1356, **2008**

**F. De Tomasi et al.**, "Systematic lidar observations of Saharan dust over Europe in the frame of EARLINET (2000-2002)", JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES, 113, 10.1029/2007JD009028, **2008**

**F. De Tomasi et al.**, "Monthly-averaged anthropogenic aerosol direct radiative forcing over the Mediterranean based on AERONET aerosol properties" ATMOSPHERIC CHEMISTRY AND PHYSICS, 8, 6995-7014, **2008**

**F. De Tomasi et al.**, "Direct radiative effects by anthropogenic particles at a polluted site: Rome (Italy)" NUOVO CIMENTO DELLA SOCIETA ITALIANA DI FISICA C-GEOPHYSICS AND SPACE PHYSICS, 31, 513-526, **2008**

**S. Fonti et al.**, "Space weathering of silicates simulated by nanosecond pulse UV excimer laser", Icarus, 108, 546-554 (**2006**).

**S. Fonti et al.**, "Optical constants of particulate minerals from reflectance measurements: the case of calcite", J. Quant. Spectr. Rad. Transf., 100, 250-255 (**2006**).

**S. Fonti et al.**, "Cluster analysis of planetary remote sensing spectral data", J. Geophys. Res., 111, E03002, doi:10.1029/2005JE002532 (**2006**).

**S. Fonti et al.**, "Diffuse reflectance of altered olivine grains: remote sensing detection and implications for Mars studies", Plan. Space Sci., 54, 784-793 (**2006**).

**S. Fonti et al.**, "Infrared spectral properties of recent and fossil biominerals of Martian interest", Nuovo Cimento, 121 B, 833-842 (**2006**).

**S. Fonti et al.**, "Infrared spectroscopy of carbonate samples of biotic origin relevant to Mars exobiological studies", Icarus, 187, 457-463 (**2007**).

**S. Fonti et al.**, "Scientific goals for the observation of Venus by VIRTIS on ESA/Venus Express mission", Plan. Space Sci., 55, 1653-1672 (**2007**).

**S. Fonti et al.**, "On potential spectroscopic detection of microfossils on Mars", Earth, Moon and Planets, DOI 10.1007/s11038-007-9153-7 (**2007**).

**S. Fonti et al.**, "South polar features on Venus similar to those near the north pole", Nature, 450, 637-640 (**2007**).

**S. Fonti et al.**, "A dynamic upper atmosphere of Venus as revealed by VIRTIS on Venus Express", Nature, 450, 641-645 (**2007**).

**S. Fonti et al.**, "Crystallisation processes in cosmic silicates: Laboratory progress towards understanding structural spectral relationships", Adv. Space Res., 39, 375-391 (**2007**).

**S. Fonti et al.**, "Statistical exploration and volume reduction of planetary remote sensing spectral data", J. Geophys. Res., 113, E12009, doi:10.1029/2008JE003219 (2008).

**S. Fonti et al.**, "Evaluation of carbonate abundance in putative Martian paleolake basins, Icarus, 200, 426-435 (2009).

**S. Fonti et al.**, "Time dependent degradation of biotic carbonates and the search for past life on Mars", Plan. Space Sci., Plan. Space Sci. 57, 632–639 (2009)

**S. Fonti et al.**, "The Martian Atmosphere as Observed by VIRTIS-M on Rosetta Spacecraft", J. Geophys. Res., doi:10.1029/2009JE003345, in press (accepted 5 October 2009).

**S. Fonti et al.**, "Mapping the methane on Mars", Astronomy & Astrophysics, doi: 10.1051/0004-6361/200913178, in press, (accepted 22 December 2009).

**S. Fonti et al.**, "Infrared reflectance spectra of particulate mixtures", Jou. Geophys. Res., doi:10.1029/2009JE003461, in press (accepted 7 January 2010).

**S. Fonti et al.**, "Study of terrestrial fossils in phyllosilicate-rich soils: possible analogue for the search of biosignatures on Mars", Icarus, in press (2010).

**S. Fonti et al.**, "A comparative study of biotic and abiotic minerals in the context of the research of life on Mars", in Proc. of 7th Multinational Congress on Microscopy, June 26-30, 2005, Portorož, Slovenia. M. Čeh, G. Dražič, and S. Fidler eds., 361-362 (2005).

**S. Fonti et al.**, "Studies of biominerals relevant to the search for life on Mars ", Origins of Life and Evolution of Biospheres, 36, 621-622 (2006)

**S. Fonti et al.**, "A radiative transfer model applied to the analysis of dust suspended in the Martian atmosphere", in Proc. of the 2nd workshop on Mars atmosphere modelling and observations, February 27 - March 3, 2006, Granada, Spain. F. Forget et al. eds., 225-228 (2006).

**S. Fonti et al.**, "Extinction spectra of particulate materials: the role of tiny dust covering larger grains", in Proc. of the 9th Conference on Electromagnetic and Light Scattering by Nonspherical Particles: Theory, Measurements and Applications, June 5-9, 2006, Saint Petersburg, Russia. N. Voshchinnikov ed., 175-177 (2006).

**S. Fonti et al.**, "Physical characterization of biominerals of Martian interest", Mem. S.A.It. Suppl. 11, 164-168 (2007).

**S. Fonti et al.**, "Planetary soil simulation: binary mixtures reflectance spectra", Mem. S.A.It. Suppl. 11, 220-224 (2007).

**S. Fonti et al.**, "The search for ancient life on Mars and the IR spectroscopy of Earth analogues ", Mem. S.A.It. Suppl. 12, 133-137 (2008).

**S. Fonti et al.**, "Laboratory Emission Measurements for the Interpretation of Mercury Surface Spectra " in the Joint Tematic Workshop on Messenger-BepiColombo Missions to Mercury, 3-5 June 2009, Parma (Italy), Book of Abstract pp. 49-50 (2009)

**S. Fonti et al.**, "The search for evidence of aqueous activity in putative paleolake basins on Mars using CRISM spectral data, in Proc. of the European Planetary Science Congress 2009, 14-18 September, Potsdam, Germany. Vol. 4, EPSC2009-90 (2009).

**S. Fonti et al.**, "Preservation of biosignatures in clay-rich systems: implications for Martian exobiology", Mem. S.A.It., in press (2010).

**S. Fonti et al.**, "Spectroscopic analysis of particulate samples of altered olivine and

planetological implications", Mem. S.A.It., in press (**2010**).

Marzo G.A., Roush T.L., Blanco A., Fonti S., Orofino V.: " Statistical exploration and volume reduction of planetary remote sensing spectral data", J. Geophys. Res., 113, E12009, doi:10.1029/2008JE003219 (2008).

Orofino V., Goldspiel, J., Carofalo I., Blanco A., Fonti S., Marzo G.A.; "Evaluation of carbonate abundance in putative Martian paleolake basins", Icarus 200, 426–435 doi:10.1016/j.icarus.2008.11.020 (2009).

Orofino V., Blanco A., D'Elia M., Fonti S. Licchelli D.,: " Time-dependent degradation of biotic carbonates and the search for past life on Mars ", Plan. Space Sci. 57, 632–639 (2009)

**Fonti, S. Marzo, G. A.**: "Mapping the methane on Mars", Astronomy and Astrophysics, 512, id.A51, doi: [10.1051/0004-6361/200913178](https://doi.org/10.1051/0004-6361/200913178) (2010)

V. Orofino, A. Blanco, M. D'Elia, D. Licchelli, S. Fonti, G.A. Marzo: "Study of terrestrial fossils in phyllosilicate-rich soils: implication in the search for biosignatures on Mars", Icarus, 208, 202-206, doi:[10.1016/j.icarus.2010.02.028](https://doi.org/10.1016/j.icarus.2010.02.028) (2010)

Fonti, S., S. Montanaro, R. Politi, A. Blanco, A. C. Marra, G. A. Marzo, and V. Orofino (2010), "Infrared reflectance spectra of particulate mixtures", J. Geophys. Res., 115, E06003, doi:10.1029/2009JE003461. (2010)

Coradini, A., Blanco., A., Fonti, S., Orofino V., ... et al.: "The Martian Atmosphere as Observed by VIRTIS-M on Rosetta Spacecraft", J. Geophys. Res. Planets, 115, E04004, ISSN: 0148-0227, doi:10.1029/2009JE003345, (2010).

Blanco A., D'Elia M., Licchelli D., Orofino V., Fonti S., Montanaro S.: " The search for ancient life on Mars and the IR spectroscopy of Earth analogues ", Mem. S.A.It. Suppl. 12, 133-137 (2008).

**Goldspiel, J. M., Orofino, V., Carofalo, I., Blanco, A., Fonti, S., Marzo, G. A.**: "Evaluation of Carbonate Abundance in Putative Martian Paleolake Basino", American Astronomical Society, DPS meeting #40, held 10-15 October 2008 in Ithaca NY, USA, Bulletin of the American Astronomical Society, Vol. 41, p.557,

Roush, T.L., Marzo, G.A., Fonti, S., Orofino, V., Blanco, A.: "The search for evidence of aqueous activity in putative paleolake basins on Mars using CRISM spectral data", Proceedings of the European Planetary Science Congress 2009, held 14-18 September in Potsdam, Germany, Vol. 4, EPSC2009-90 (2009).

Marzo, G.A., Roush, T.L., Fonti, S., Orofino, V., Blanco, A.: "Evidence Of Water-related Minerals In Putative Paleolakes On Mars As Seen By MRO/CRISM" 41th Annual Meeting of the AAS, Division for Planetary Sciences, 4-9 October 2009, Puerto Rico , 09-RC-271-AAS-DPS (2009).

Fonti S., F. Mancarella, Blanco A., Orofino V.: "Laboratory Emission Measurements for the Interpretation of Mercury Surface Spectra" in the Joint Tematic Workshop on Messenger-BepiColombo Missions to Mercury, 3-5 June 2009, Parma (Italy), Book of Abstract pp. 49-50, (2009).

**Roush, T. L., Marzo, G., Fonti, S., Orofino, V., Blanco, A.**: "MRO/CRISM Observations of Putative Paleolakes on Mars: Evidence of Water-related Activity", American Geophysical Union, Fall Meeting 2009, held 14-18 December 2009 in San Francisco CA, USA, abstract #P43D-1468

**Piccioni, G., Filacchione, G., Capaccioni, F., Capria, M. T., Cerroni, P., de Sanctis, M. C., Magni, G., Stefani, S., Zambelli, M., Adriani, A., Bellucci, G., Boccaccini, A., Coradini, A., Grassi, D., Nuccilli, F., Palomba, E., Tosi, F., Turrini, D., Fonti, S., Poulet, F., Berthé, M.,**

Bibring, J.-P., Eng, P., Langevin, Y., Nathues, A., Titov, D., Battistelli, E., Calamai, L., McCord, T., Jaumann, R., Helbert, J., Sanchez-Lavega, A., Debei, S., Arnold, G., Blaney, D., Carlson, R., Drossart, P., Reuter, D., Bolton, S., Irwin, P.: "The Visible and Infrared Hyperspectral Imaging Spectrometer (VIRHIS): A Study for the EJSM Mission", 41st Lunar and Planetary Science Conference, held March 1-5, 2010 in The Woodlands, Texas., USA, LPI Contribution No. 1533, p.1328

A. Facchini, S. Fonti, A. Blanco, M. D'Elia, V. Orofino: "Laboratory spectral measurement of particulate samples of altered olivine and related planetological studies" Proceedings of the European Planetary Science Congress 2010, held 19-25 September in Rome, Italy, Vol. 5, EPSC2010-372, (2010).

Roush T.L., G.A. Marzo, S. Fonti, V. Orofino, A. Blanco: "Spectral Evidence of Aqueous Activity in Two Putative Martian Paleolakes", Proceedings of the European Planetary Science Congress 2010, held 19-25 September in Rome, Italy, Vol. 5, EPSC2010-254, (2010)

Blanco A., D'Elia M., Licchelli D., Orofino V., Fonti S., Montanaro S.: "Preservation of biosignatures in clay-rich systems: implications for Martian exobiology", Mem. S.A.It., in press (2010).

Orofino V., Blanco A., D'Elia M., Fonti S. Giuri, M.: "Spectroscopic analysis of particulate samples of altered olivine and planetological implications", Mem. S.A.It., in press (2010).

E.Gorini et al, "Observation of a Centrality-Dependent Dijet Asymmetry in Lead-Lead Collisions at  $\sqrt{S(NN)} = 2.76$  TeV with the ATLAS Detector at the LHC", Phys. Rev. Lett. 105:252303 1-18 (2010)

E.Gorini et al, "Measurement of the  $W \rightarrow l\nu$  and  $Z/\gamma^*$   $\rightarrow ll$  production cross sections in proton-proton collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector", J. High Energy Phys. 1012:060 (2010)

E.Gorini et al, "Search for Quark Contact Interactions in Dijet Angular Distributions in pp Collisions at  $\sqrt{s} = 7$  TeV Measured with the ATLAS Detector", Phys. Lett. B 694:4-5 327-345 (2010) E.Gorini et al, "Search for New Particles in Two-Jet Final States in 7 TeV Proton-Proton Collisions with the ATLAS Detector at the LHC", Phys. Rev. Lett. 105:161801 1-19 (2010)

E.Gorini et al, "Performance of the ATLAS Muon Trigger in pp collisions at  $\sqrt{s} = 7$  TeV", ATLAS-COM-CONF-2010-099 (2010)

E.Gorini et al, "Performance of the ATLAS Detector using First Collision Data", J. High Energy Phys. 09:05 61-66 (2010)

E.Gorini et al, "ATLAS Muon Trigger Performance on cosmic rays and pp collisions at  $\sqrt{s} = 900$  GeV", ATLAS-COM-CONF-2010-013 (2010)

E.Gorini et al, "The Muon High Level Trigger of the ATLAS experiment", J. Phys.: Conf. Ser. 219:032025 (2010)

E.Gorini et al, "Charged-particle multiplicities in pp interactions at  $\sqrt{s} = 900$  GeV measured with the ATLAS detector at the LHC", Phys. Lett. B 688:21-42 (2010)

E.Gorini et al, "Commissioning of the ATLAS Muon Spectrometer with Cosmic Rays", Eur. Phys. J. C 70:875-916 (2010)

E.Gorini et al, "The ATLAS Simulation Infrastructure", Eur. Phys. J. C 70:823-874 (2010)

E.Gorini et al, "The ATLAS Inner Detector commissioning and calibration", Eur. Phys. J. C

70:787-821 (2010)

E.Gorini et al, "Drift Time Measurement in the ATLAS Liquid Argon Electromagnetic Calorimeter using Cosmic Muons", Eur. Phys. J. C 70:755-785 (2010)

E.Gorini et al, "Readiness of the ATLAS Liquid Argon Calorimeter for LHC Collisions", Eur. Phys. J. C 70:723-753 (2010)

**E.Gorini et al.**, The Level-1 Trigger Muon Barrel System of the ATLAS experiment at CERN, JOURNAL OF INSTRUMENTATION, 4, art. No. P04010, 2009

**E.Gorini et al.**, Study of the ATLAS MDT spectrometer using high energy CERN combined test beam data, NUCL. INSTR. & METHODS A, 598, 400, 2009

**E.Gorini et al.**, Calibration and performances of the KLOE calorimeter, NUCL. INSTR. & METHODS A, 598, 239, 2009

**E.Gorini et al.**, ATLAS RPC certification with cosmic rays, NUCL. INSTR. & METHODS A, 602, 700, 2009

**E.Gorini et al.**, Studies of electron drift velocity and charge spectra in RPC by a UV laser source, NUCL. INSTR. & METHODS A, 602, 757, 2009

**E.Gorini et al.**, Measurement of  $\sigma(e^+e^- \rightarrow \pi^+\pi^-\gamma\gamma)$  and the dipion contribution to the muon anomaly with the KLOE detector, PHYSICS LETTERS B, 670, 285, 2009

**E.Gorini et al.**, Study of the  $a(0)(980)$  meson via the radiative decay  $\phi \rightarrow \eta\pi^0\gamma$  with the KLOE detector, PHYSICS LETTERS B, 681, 5, 2009

**E.Gorini et al.**, A study of the radiative  $K-L \rightarrow \pi^{(+/-})e^{(-/+})\nu$  gamma decay and search for direct photon emission with the KLOE detector, EUROPEAN PHYSICAL JOURNAL C, 55, 539, 2008

**E.Gorini et al.**, Status of the ATLAS level-1 central trigger and muon barrel trigger and first results from cosmic-ray data, IEEE TRANSACTIONS ON NUCLEAR SCIENCE, 55, 139, 2008

**E.Gorini et al.**, "The ATLAS muon trigger ""Slice""", IEEE TRANSACTIONS ON NUCLEAR SCIENCE, 55, 151, 2008

**E.Gorini et al.**, Measurement of the charged kaon lifetime with the KLOE detector, JOURNAL OF HIGH ENERGY PHYSICS, 1, art. No. 73, 2008

**E.Gorini et al.**, Measurement of the absolute branching ratios for semileptonic  $K^{+/-}$  decays with the KLOE detector, JOURNAL OF HIGH ENERGY PHYSICS, 2, art. No. 98, 2008

**E.Gorini et al.**, vertical bar V-us vertical bar and lepton universality from kaon decays with the KLOE detector, JOURNAL OF HIGH ENERGY PHYSICS, 4, art. No. 59, 2008

**E.Gorini et al.**, Determination  $\eta \rightarrow \pi^+\pi^-\pi^0$  Ditz plot slopes and asymmetries with the KLOE detector, JOURNAL OF HIGH ENERGY PHYSICS, 5, art. No. 6, 2008

**E.Gorini et al.**, The ATLAS Experiment at the CERN Large Hadron Collider, JOURNAL OF INSTRUMENTATION, 3, art. No. S08003, 2008

**E.Gorini et al.**, System test of the ATLAS muon spectrometer in the H8 beam at the CERN SPS, NUCL. INSTR. & METHODS A, 593, 232, 2008

**E.Gorini et al.**, Measurement of the branching ratio of the  $K^+ \rightarrow \pi^+\pi^0\gamma$  decay

with the KLOE detector, PHYSICS LETTERS B, 666, 305, 2008

**E.Gorini et al.**, Dalitz plot analysis of  $e(+e(-)\rightarrow\pi(0)\pi(0)\gamma$  events at root similar or equal to  $M_\phi$  with the KLOE detector, EUROPEAN PHYSICAL JOURNAL C, 49, 473, 2007

**E.Gorini et al.**, Latest results from KLOE at DA Phi NE, INTERNATIONAL JOURNAL OF MODERN PHYSICS A, 22, 357, 2007

**E.Gorini et al.**, Precise measurements of the eta meson and the neutral kaon masses with the KLOE detector, JOURNAL OF HIGH ENERGY PHYSICS, 12, art. No. 73, 2007

**E.Gorini et al.**, Measurement of the  $K-L \rightarrow \pi \mu \nu$  form factor parameters with the KLOE detector, JOURNAL OF HIGH ENERGY PHYSICS, 12, art. No. 105, 2007

**E.Gorini et al.**, Preliminary performance results for the ATLAS RPC test stand in Lecce, NUCL. INSTR. & METHODS A, 572, 18, 2007

**E.Gorini et al.**, ATLAS RPC thermal studies, NUCL. INSTR. & METHODS A, 572, 36, 2007 **E.Gorini et al.**, Characterization with a nitrogen laser of a small size RPC, NUCL.

INSTR. & METHODS A, 572, 173, 2007

**E.Gorini et al.**, RPC cosmic ray tests in the ATLAS experiment, NUCL. INSTR. & METHODS A, 581, 213, 2007

**E.Gorini et al.**, The ATLAS level-1 trigger: Status of the system and first results from cosmic-ray data, NUCL. INSTR. & METHODS A, 581, 476, 2007

**E.Gorini et al.**, Measurement of the pseudoscalar mixing angle and eta' gluonium content with the KLOE detector, PHYSICS LETTERS B, 648, 267, 2007

**E.Gorini et al.**, The eta  $\rightarrow \eta(0)\gamma$  gamma decay, the eta/eta' mixing angle and the eta mass measurement at KLOE, ACTA PHYSICA SLOVACA, 56, 403, 2006

**E.Gorini et al.**, Measurement of the DA Phi NE luminosity with the KLOE detector using large angle Bhabha scattering, EUROPEAN PHYSICAL JOURNAL C, 47, 589, 2006

**E.Gorini et al.**, Precise measurement of  $\Gamma(K-S \rightarrow \pi(+) \pi(-) \gamma)/\Gamma(K-S \rightarrow \pi(0) \pi(0))$  with the KLOE detector at DA phi NE, EUROPEAN PHYSICAL JOURNAL C, 48, 767, 2006

**E.Gorini et al.**, New results on ATLAS RPC's aging at CERN's GIF, IEEE TRANSACTIONS ON NUCLEAR SCIENCE, 53, 567, 2006

**E.Gorini et al.**, Determination of CP and CPT violation parameters in the neutral kaon system using the Bell-Steinberger relation and data from the KLOE experiment, JOURNAL OF HIGH ENERGY PHYSICS, 12, art. No. 11, 2006

**E.Gorini et al.**, The LECCE cosmic ray testing facility for the ATLAS RPC, NUCL. INSTR. & METHODS A, 565, 450, 2006

**E.Gorini et al.**, The RPC first level muon trigger in the barrel of the ATLAS experiment, NUCLEAR PHYSICS B-PROCEEDINGS SUPPLEMENTS, 158, 11, 2006

**E.Gorini et al.**, Measurements of drift velocity in the ATLAS RPC gas mixture, NUCLEAR PHYSICS B-PROCEEDINGS SUPPLEMENTS, 158, 133, 2006

**E.Gorini et al.**, Measurements of the absolute branching ratios for the dominant  $K-L$  decays, the  $K-L$  lifetime, and  $V_{us}$  with the KLOE detector, PHYSICS LETTERS B, 632, 43, 2006

**E.Gorini et al.**, Measurement of the absolute branching ratio for the K<sup>+</sup>->mu (+) v(gamma) decay with the KLOE detector, PHYSICS LETTERS B, 632, **76**, 2006

**E.Gorini et al.**, Measurement of the branching ratio of the K-L ->pi(+) pi(-) decay with the KLOE detector, PHYSICS LETTERS B, **638**, **140**, 2006

E.Gorini et al., Study of the decay phi -> f(0)(980)gamma -> pi (+) pi(-) gamma with the KLOE detector, PHYSICS LETTERS B, 634, 148, 2006

**E.Gorini et al.**, Measurement of the form-factor slopes for the decay K-L -> pi(+/-)e(+/-)nu with the KLOE detector, PHYSICS LETTERS B, **636**, **166**, 2006

**E.Gorini et al.**, Study of the branching ratio and charge asymmetry for the decay K-S -> pi e nu with the KLOE detector, PHYSICS LETTERS B, 636, 173, 2006

**E.Gorini et al.**, First observation of quantum interference in the process phi -> KSKL -> pi(+)pi(-)pi(+)pi(-): A test of quantum mechanics and C P T symmetry, PHYSICS LETTERS B, 642, 315, 2006

**E.Gorini et al.**, Measurement of the branching ratio of the K-L ->pi(+) pi(-) decay with the KLOE detector, PHYSICS LETTERS B, 638, 140, 2006

**B.G. Konopeltchenko (with G. Ortenzi)** Hamiltonian motions of plane curves and formation of singularities and bubbles, J.Phys.A: Math. Theor., 43 (2010) 195204 (18 pp).

**B.G. Konopeltchenko ( with L.Martinez Alonso and E. Medina)** Hodograph solutions of the dispersionless coupled KdV hierarchies, critical points and the Euler-Poisson-Darboux equation, J.Phys.A: Math. Theor., 43 (2010) 434020 (15 pp).

**B.G. Konopeltchenko - On the deformation** theory of structure constants for associative algebras, Advances in Math. Physics, 2010, (2010) 38909 (21 pp).

**B.G. Konopeltchenko - Menelaus relation, Hirota-Miwa equation and Fay's trisecant formula** are associativity equations, J. Nonl. Math. Physics, 17 (2010) N.4, (13 pp).

**B.G. Konopeltchenko et al.**, A classification of integrable quasiclassical deformations of algebraic curves, J. Phys.A: Math.Gen., 39,(2006), 11231-11246.

**B.G. Konopeltchenko et al.**, On the heavenly equation hierarchy and its reductions,J. Phys.A: Math.Gen.,39, (2006), 11793-11802.

**B.G. Konopeltchenko et al.**, High frequency integrable regimes in nonlocal nonlinear optics, J.Geometry and Symmetry in Physics, 7, (2006),37-85.

**B.G. Konopeltchenko et al.**, Coisotropic deformations of associative algebras and dispersionless integrable hierarchies, Commun. Math. Phys., 274 (2007), 627-658.

**B.G. Konopeltchenko ety al.**, Dispersionless integrable equations as coisotropic deformations:extensions and reductions, Theor.Math.Physics, 151, (2007),803-819.

**B.G. Konopeltchenko et al.**, Integrable semiclassical deformations of general algebraic curves and associated conservation laws, Theor. Math. Phys., 151, (2007), 820-830.

**B.G. Konopeltchenko et al.**, Quasiclassical generalized Weierstrass representation and dispersionless DS equation, J. Phys. A: Math.Theor., 40, (2007), F995-F1004.

**B.G. Konopeltchenko et al.**, Corrugated surfaces with slow modulation and quasiclassical Weierstrass representation, J. Nonl. Math. Phys.,15, (2008), 227-236.

**B.G. Konopeltchenko et al.**, Quantum deformations of associative algebras and integrable systems, J. Phys. A: Math.Theor., 42, (2009), 095201 (18pp).

**B.G. Konopeltchenko et al.**, A novel generalization of Cliffords's classical point-circle configuration. Geometric interpretation of the quaternionic discrete Schwarzian Kadomtsev-Petviashvili equation, Proc. Roy. Soc. Lond. Ser. A, 465,(2009),1291-1308.

**B.G. Konopeltchenko et al.**, Continuous-discrete integrable equations and Darboux transformations as deformations of associative algebras, Theor. Math. Phys., 159 (2009), 841-851.

**B.G. Konopeltchenko et al.**, Discrete integrable systems and deformations of associative algebras, J.Phys.A:Math.Theor., 42, (2009), 454003 (35pp).

**B.G. Konopeltchenko et al.**, Coisotropic deformations of algebraic varieties and integrable systems, J.Phys.A: Math. Theor., 42 (2009), 415207 ( 18pp).

**G. Landolfi et al**, "Quantum phase problem for harmonic and time-dependent oscillator systems, Theoretical and Mathematical Physics, 160 925-932 (2009)

**G. Landolfi et al**, Weyl-ordered series form for the angle variable of the time-dependent oscillator, Journal of Physics A: Mathematical and Theoretical, 41 (2008) 185302

**G. Landolfi et al**, Generalized measurement of the non-normal two-boson operator  $Z = a_1 + \gamma a_2^\dagger$ , Journal of Physics A: Mathematical and Theoretical, 40, F531-F537 (2007).

**G. Landolfi et al**, On certain canonoid transformations and invariants for the parametric oscillator, Journal of Physics A: Mathematical and Theoretical, 40, 3413, (2007).

[Measurement of Dijet Azimuthal Decorrelations in pp Collisions at  \$\sqrt{s}=7\$  TeV.](#)

By **F. Grancagnolo** (ATLAS Collaboration)  
[arXiv:1102.2696] (Feb 2011) 4p.

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By **F. Grancagnolo** (ATLAS Collaboration)  
[arXiv:1102.2357] (Feb 2011) 5p.

[Search for Massive Long-lived Highly Ionising Particles with the ATLAS Detector at the LHC.](#)

By **F. Grancagnolo** (ATLAS Collaboration)  
[arXiv:1102.0459] (Feb 2011) 7p.

[Luminosity Determination in pp Collisions at  \$\sqrt{s}=7\$  TeV Using the ATLAS Detector at the LHC.](#)

By **F. Grancagnolo** (ATLAS Collaboration)  
[arXiv:1101.2185] (Jan 2011) 24p.

[Study of Jet Shapes in Inclusive Jet Production in pp Collisions at  \$\sqrt{s} = 7\$  TeV using the ATLAS Detector.](#)

By **F. Grancagnolo** (ATLAS Collaboration)  
[arXiv:1101.0070] CERN-PH-EP-2010-077 (Jan 2011)

[Measurement of the centrality dependence of  \$J/\psi\$  yields and observation of Z production in lead-lead collisions with the ATLAS detector at the LHC.](#)

By **F. Grancagnolo** (ATLAS Collaboration)  
Phys.Lett.B697:294-312,2011,. [arXiv:1012.5419]

[Measurement of the production cross section for W-bosons in association with jets in pp collisions](#)

at  $\sqrt{s} = 7$  TeV with the ATLAS detector.

By **F. Grancagnolo** (ATLAS Collaboration)

[arXiv:1012.5382] CERN-PH-EP-2010-081 (Dec 2010) 26p.

Charged-particle multiplicities in pp interactions measured with the ATLAS detector at the LHC.

By **F. Grancagnolo** (ATLAS Collaboration)

[arXiv:1012.5104] (Dec 2010) 70p.

Measurement of the inclusive isolated prompt photon cross section in pp collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector.

By **F. Grancagnolo** (ATLAS Collaboration)

[arXiv:1012.4389] (Dec 2010) 19p.

Search for Diphoton Events with Large Missing Transverse Energy in 7 TeV Proton-Proton Collisions with the ATLAS Detector. By **F. Grancagnolo** (ATLAS Collaboration)

[arXiv:1012.4272] (Dec 2010) 5p.

Measurement of the top quark-pair production cross section with ATLAS in pp collisions at  $\sqrt{s} = 7$  TeV.

By **F. Grancagnolo** (ATLAS Collaboration)

[arXiv:1012.1792] (Dec 2010) 30p.

Measurement of underlying event characteristics using charged particles in pp collisions at  $\sqrt{s} = 900$  GeV and 7 TeV with the ATLAS detector.

By **F. Grancagnolo** (ATLAS Collaboration)

[arXiv:1012.0791] (Dec 2010) 36p.

Observation of a Centrality-Dependent Dijet Asymmetry in Lead-Lead Collisions at  $\sqrt{S_{NN}} = 2.76$  TeV with the ATLAS Detector at the LHC.

By **F. Grancagnolo** (ATLAS Collaboration)

[arXiv:1011.6182] (Nov 2010)

Drift chamber for the CMD-3 detector.

By **F. Grancagnolo**, et al.,

Nucl.Instrum.Meth.A623:114-116,2010,.

Measurement of the  $W \rightarrow l\nu$  and  $Z/\gamma^*$   $\rightarrow ll$  production cross sections in proton-proton collisions at  $\sqrt{s} = 7$  TeV with the ATLAS detector.

By **F. Grancagnolo** (ATLAS Collaboration)

JHEP 1012:060,2010,. [arXiv:1010.2130]

Search for Quark Contact Interactions in Dijet Angular Distributions in pp Collisions at  $\sqrt{s} = 7$  TeV Measured with the ATLAS Detector.

By **F. Grancagnolo** (ATLAS Collaboration)

Phys.Lett.B694:327-345,2011,. [arXiv:1009.5069]

Search for New Particles in Two-Jet Final States in 7 TeV Proton-Proton Collisions with the ATLAS Detector at the LHC.

By **F. Grancagnolo** (ATLAS Collaboration)

Phys.Rev.Lett.105:161801,2010,. [arXiv:1008.2461]

Performance of the ATLAS Detector using First Collision Data.

By **F. Grancagnolo** (ATLAS Collaboration)

JHEP 1009:056,2010,. [arXiv:1005.5254]

Charged-particle multiplicities in pp interactions at  $\sqrt{s} = 900$  GeV measured with the ATLAS detector at the LHC.

By **F. Grancagnolo** (ATLAS Collaboration)  
Phys.Lett.B688:21-42,2010,. [arXiv:1003.3124]

Drift Time Measurement in the ATLAS Liquid Argon Electromagnetic Calorimeter using Cosmic Muons.

By **F. Grancagnolo** (ATLAS Collaboration)  
Eur.Phys.J.C70:755-785,2010,. [arXiv:1002.4189]

Readiness of the ATLAS Liquid Argon Calorimeter for LHC Collisions.

By **F. Grancagnolo** (ATLAS Collaboration)  
Eur.Phys.J.C70:723-753,2010,. [arXiv:0912.2642]

**F. Grancagnolo** et al, Studies of electron drift velocity and charge spectra in RPC by a UV laser source. Nucl.Instrum.Meth.A602:757-760, 2009

**F. Grancagnolo** et al, 2) ATLAS RPC certification with cosmic rays. Nucl. Instrum. Meth.A 602:700-704, 2009

**F. Grancagnolo** et al, The Level-1 Trigger Muon Barrel System of the ATLAS experiment at CERN. JINST 4:P04010, 2009

**F. Grancagnolo** et al, Drift chamber for the CMD-3 detector. Nucl.Instrum. Meth. A 598:105-106, 2009

**F. Grancagnolo** et al, Cluster counting drift chamber as high precision tracker for ILC experiments. By R. Perrino, et al., Nucl. Instrum. Meth.A 598:98-101, 2009

**F. Grancagnolo** et al,6) Study of the ATLAS MDT spectrometer using high energy CERN combined test beam data. Nucl. Instrum. Meth.A598: 400-415, 2009

**F. Grancagnolo** et al, The ATLAS trigger/DAQ authorlist, version 1.0. ATL-DAQ-PUB-2008-004 (Nov 2008) 4p

**F. Grancagnolo** et al, Expected Performance of the ATLAS Experiment - Detector, Trigger and Physics. arXiv:0901.0512] (Jan 2009) 1852p.

**F. Grancagnolo** et al, The ATLAS Experiment at the CERN Large Hadron Collider. JINST 3:S08003, 2008

**F. Grancagnolo** et al, First cosmic ray results of the RPC commissioning in the ATLAS cavern. Nucl. Phys. Proc.Suppl.177-178:335-338, 2008

**F. Grancagnolo** et al, RPC cosmic ray tests in the ATLAS experiment. Nucl. Instrum. Meth.A581:213-216, 2007

**F. Grancagnolo** et al, Laser beam characterization of the ATLAS RPC gas mixture. Nucl. Phys.Proc. Suppl.172:284-288, 2007

**F. Grancagnolo** et al, The ultimate resolution drift chamber. Nucl. Phys. Proc.Suppl. 172:25-27, 2007

**F. Grancagnolo** et al, ILC Reference Design Report Volume 4 - Detectors. [arXiv:0712.2356] (Dec 2007)

**F. Grancagnolo** et al, ILC Reference Design Report: ILC Global Design Effort and World Wide Study. [arXiv:0712.1950] (Aug 2007) 147p.

**F. Grancagnolo** et al,16) From MARK3 to superB and ILC. Nucl. Instrum. Meth. A579:557-561, 2007

**F. Grancagnolo** et al, The ATLAS trigger: Commissioning with cosmic rays. Phys.Conf.

- F. Grancagnolo** et al, International Linear Collider Reference Design Report Volume 2: PHYSICS AT THE ILC. [arXiv:0709.1893] (Sep 2007)
- F. Grancagnolo** et al, The 4th Concept Detector for the International Linear Collider. [arXiv:0708.0142] (Aug 2007) 8p.
- F. Grancagnolo** et al, The ATLAS Level-1 Trigger: Status of the System and First Results from Cosmic-Ray Data. Nucl. Instrum. Meth. A582:476-481, 2007. [arXiv:0707.4122]
- F. Grancagnolo** et al, Improving spatial resolution and particle identification. Nucl. Instrum. Meth. A 572:198-200, 2007
- F. Grancagnolo** et al, Characterization with a nitrogen laser of a small size RPC. Nucl. Instrum. Meth. A572:173-174, 2007
- F. Grancagnolo** et al, ATLAS RPC thermal studies. Nucl. Instrum. Meth.A 572:36-37,2007
- F. Grancagnolo** et al, Preliminary performance results for the ATLAS RPC test stand in Lecce. Nucl. Instrum. Meth. A572:18-19, 2007
- F. Grancagnolo** et al The LECCE cosmic ray testing facility for the ATLAS RPC. Nucl. Instrum. Meth. A565:450-456, 2006
- F. Grancagnolo** et al, Temperature dependent performance of ATLAS RPC. Nucl. Phys. Proc. Supp 1.158:204-207, 2006
- F. Grancagnolo** et al, New results on ATLAS RPC's aging at CERN's GIF. IEEE Trans. Nucl. Sci. 53:567-571, 2006
- F. Grancagnolo** et al, Atlas rpc quality assurance results at infn lecce. AIP Conf.Proc.815:285-290, 2006,. [physics/0601017]
- F. Grancagnolo** et al, System test of the ATLAS muon spectrometer in the H8 beam at the CERN SPS. Nucl. Instrum. Meth. A593:232-254, 2008
- M. Martino et al.**, Space Weathering Of Silicates Simulated By Nanosecond Pulse Uv Excimer Laser, Below And Above The Ablation Threshold, Icarus 180(2), **(2006)** 546-554
- M. Martino et al.**; Low Electrode Induced Optical Losses In Organic Active Single Layer PFO Waveguides With Two Indium Tin Oxides Electrodes Deposited By Pulsed Laser Deposition Appl. Phys Lett. 89 **(2006)** 031108
- M. Martino et al.**; Er-doped oxyfluoride silicate thin films prepared by pulsed laser deposition, Optical Materials **29** **(2007)** 1166-1170
- M. Martino et al.**, Reactive pulsed laser deposition of gold nitride thin films, Applied Surface Science 253, **(2007)** 8037-8040
- M. Martino et al.**, Pulsed Laser Photodeposition of a-Se nanofilms by ArF Laser, Applied Surface Science 253, **(2007)** 6517
- M. Martino et al.**, Uniform thin films of TiO<sub>2</sub> nanoparticles deposited by matrix-assisted pulsed laser evaporation, Applied Surface Science 253, **(2007)** 6471-6475
- M. Martino et al.**, TiO<sub>2</sub> nanoparticles thin film deposition by Matrix Assisted Pulsed Laser Evaporation for sensing applications, Applied Surface Science, 253, **(2007)** 7937-7941
- M. Martino et al.**, FexNi100-x nanometric films deposited by laser ablation on SiO<sub>2</sub>/Si substrate Applied Surface Science 253, **(2007)** 6522-6526

**M. Martino et al.**, Acetone and ethanol solid state gas sensors based on TiO<sub>2</sub> nanoparticles thin film deposited by Matrix Assisted Pulsed Laser Evaporation, Sensors And Actuators. B, Chemical, 127, (2007) 426

**M. Martino et al.**, Matrix-assisted pulsed laser evaporation of polyfluorene thin films, Applied Surface Science 253, (2007) 6461

**M. Martino et al.**, Structural properties of single and multilayer ITO and TiO<sub>2</sub> films deposited by reactive pulsed ablation deposition technique, Applied Surface Science 253, (2007) 6508-6511

**M. Martino et al.**, M; Pulsed Laser Deposition of Er doped tellurite films on large area Journal of Physics: Conference Series, 59 (2007) 475-478

**M. Martino et al.**, Zinc Oxide Nanostructures Grown By Pulsed Laser Deposition Applied Physics. 93, (2008) 729- 733.

**M. Martino et al.**, Pulsed Laser Deposition Of Organic And Biological Materials. Journal Of Materials Science-Materials In Electronics 20 (2008) S435- S440

**M. Martino et al.**,; MAPLE deposition of methoxy Ge triphenylcorrole thin films Applied Physics. 93 (2008) 651- 654

**M. Martino et al.**,; MAPLE deposition and characterization of SnO<sub>2</sub> colloidal nanoparticle thin films Journal Of Physics D-Applied Physics 42 (2009) 95105- 95110

**M. Martino et al.**, Study of temperature dependence and angular distribution of poly(9,9-dioctylfluorene) polymer films deposited by matrix-assisted pulsed laser evaporation (MAPLE) Applied Surface Science 255, (2009), 9659-9664

**M. Martino et al.**,; Morphology and photoluminescence properties of zinc oxide films grown by Pulsed Laser Deposition. Applied Surface Science 255, (2009), 9680-9683

**M. Martino et al.**, Optical gas sensing through nanostructured ZnO films with different morphologies, Actuators: B. Chemical 145, (2010), 167-173

D. Valerini, A. Creti', A.P. Caricato, M. Lomascolo, R. Rella, M. Martino:  
ZnO Nanostructures Deposited by Laser Ablation, Nanotechnology Science and Technology, Nova Science Publishers Inc, New York (2009)

Laser Beams: Theory, Properties and Applications: ZnO Nanostructures Deposited by Laser Ablation D. Valerini, A. Creti', A.P. Caricato, M. Lomascolo, R. Rella, and M. Martino, Editors: Maxim Thys and Eugene Desmet, Nova Science Publishers Inc, New York (2010)

[Valerini D.](#), [Creti A.](#), [Caricato A.P.](#), [Lomascolo M.](#), [Rella R.](#), [Martino](#). M. , Optical gas sensing through nanostructured ZnO films with different morphologies  
Sensors & Actuators: B. Chemical 145 (2010) 167-173

[Caricato A. P.](#), [Cesaria M.](#), [Luches A.](#), [Martino M.](#), [Maruccio G.](#), [Valerini D.](#), [Catalano M.](#), [Cola A.](#), [Manera M. G.](#), [Lomascolo M.](#), [Taurino A.](#), [Rella R.](#), ,Electrical and optical properties of ITO and ITO/Cr-doped ITO films Applied Physics A 101 (2010) 753 – 758

Caricato AP; Leggieri G; Martino M, Vantaggiato A., Valerini D., Creti A., Lomascolo M., Manera, M. G., Rella, R., Anni, M. Dependence of the surface roughness of MAPLE-deposited films on the solvent parameters Applied Physics A-Materials Science & Processing 101 (2010) 759-764

Caricato AP; Luches A; Martino M, Valerini D, Kudryavtsev Y. V., Korduban A. M., Mullenko S. A., Gorbatchuk N. T. Deposition of chromium oxide thin films with large thermoelectromotive force coefficient by reactive pulsed laser ablation Journal Of Optoelectronics And Advanced Materials 12

(2010) 427-431

D. Montanino et al., "Detection of 8B solar neutrinos in liquid scintillators", proceedings of "TAUP '05, 9th international workshop on topics in Astroparticle and Underground Physics" (Zaragoza, Spain, September, 2005), published on Journal of Physics, Conference Series 39, 272 (2006)

D. Montanino et al., "Supernova neutrino physics with future large water-Cherenkov detectors", D. Montanino, in the proceedings of "TAUP '05, 9<sup>th</sup> international workshop on topics in Astroparticle and Underground Physics" (Zaragoza, Spain, September, 2005), published on Journal of Physics, Conference Series 39, 484 (2006)

**D. Montanino et al.**, "Damping of neutrino flavor conversions in a 'noisy' supernova shock-wave", G.L. Fogli, E. Lisi, A. Mirizzi, D. Montanino, in the proceedings of "SNOW 2006, 2nd Scandinavian Neutrino Workshop" (Stockholm, Sweden, May 2006), published on Phys. Scr. T127, **80 (2006)**

**D. Montanino et al.**, "Supernova neutrino burst as a probe of shock waves and matter density fluctuations", G.L. Fogli, E. Lisi, A. Mirizzi, D. Montanino, in the proceedings of "IFAE 2006, Incontri di fisica delle Alte Energie" (Pavia Italy, April, 2006), ed. by G. Montagna, O. Nicrosini, V. Vercesi, p. 313 (**Springer, 2007**)

**D. Montanino et al.**, "Solar atmosphere neutrino oscillations", G.L. Fogli, E. Lisi, A. in the proceedings of "NOW 2006, IV Europhysics Neutrino Oscillations Workshop" (Otranto, Italy, September, 2006), published on Nucl. Phys. B 168 (Proc. Suppl.), **283 (2007)**

**D. Montanino et al.**, "Supernova neutrino observation twenty years after SN1987A: Status and perspectives", G.L. Fogli, E. Lisi, A. Mirizzi, D. Montanino, in the proceedings of "First Italian-Pakistani Workshop on Relativistic Astrophysics" (Lecce, Italy, June, 2007), published on Il Nuovo Cimento B, 122B, 373 (**2007**)

**D. Montanino et al.**, "A cosmological bound on radiative neutrino lifetime", A. Mirizzi, D. Montanino, P.D. Serpico, in the proceedings of "TAUP'07, 10th Int. Conf. on Topics in Astroparticle and Underground Physics" (Sendai, Japan, September, 2007), published on Journal of Physics, Conference Series 120, 022010 (**2008**)

**D. Montanino et al.**, 13) "Solar atmosphere neutrino oscillations", in the proceedings of "TAUP'07, 10<sup>th</sup> Int. Conf. on Topics in Astroparticle and Underground Physics" (Sendai, Japan, September, 2007), published on Journal of Physics, Conference Series 120, **052039 (2008)**

**D. Montanino et al.**, Probing supernova shock waves and matter density fluctuations by neutrino flavor conversions", G.L. Fogli, E. Lisi, A. Mirizzi, D. Montanino. in the proceedings of "ICHEP 2006, XXXIII Intern. Conf. on High Energy Physics" (Moscow, Russia. August, 2006), ed. by Alexey Sissakian, Gennady Kozlov, Elena Kolganova, pag. 259 (World Scientific **2007**)

**V. Orofino et al.**, "Ion irradiation of solids of planetological interest", Mem. S.A.It. Suppl., 9, **157-160 (2006)**.

**V. Orofino et al.**, "Studies of biominerals relevant to the search for life on Mars ", Origins of Life and Evolution of Biospheres, 36, **621-622 (2006)**

**V. Orofino et al.**, "A radiative transfer model applied to the analysis of dust suspended in the Martian atmosphere", in Proc. of the 2nd workshop on Mars atmosphere modelling and observations, February 27 - March 3, **2006**, Granada, Spain. F. Forget et al. eds., 225-228 (**2006**).

**V. Orofino et al.**, "Extinction spectra of particulate materials: the role of tiny dust covering larger grains", in Proc. of the 9th Conference on Electromagnetic and Light Scattering by Nonspherical Particles: Theory, Measurements and Applications, June 5-9, 2006, Saint Petersburg, Russia. N. Voshchinnikov ed., 175-177 (**2006**).

**V. Orofino et al.**, "Space weathering: from laboratory to observations", Mem. S.A.It. Suppl. 11, 159-163 (**2007**).

**V. Orofino et al.**, "Physical characterization of biominerals of Martian interest", Mem. S.A.It. Suppl. 11, 164-**168 (2007)**.

**V. Orofino et al.**, "Planetary soil simulation: binary mixtures reflectance spectra", Mem. S.A.It. Suppl. 11, 220-**224 (2007)**.

**V. Orofino et al.**, "The search for ancient life on Mars and the IR spectroscopy of Earth analogues ", Mem. S.A.It. Suppl. 12, 133-**137 (2008)**.

**V. Orofino et al.**,: "Laboratory Emission Measurements for the Interpretation of Mercury Surface Spectra " in the Joint Tematic Workshop on Messenger-BepiColombo Missions to Mercury, 3-5 June 2009, Parma (Italy), Book of Abstract pp. 49-**50 (2009)**

**V. Orofino et al.**,.: The search for evidence of aqueous activity in putative paleolake basins on Mars using CRISM spectral data, in Proc. of the European Planetary Science Congress 2009, 14-18 September, Potsdam, Germany. Vol. 4, EPSC2009-**90 (2009)**.

**V. Orofino et al.**,.: "Preservation of biosignatures in clay-rich systems: implications for Martian exobiology", Mem. S.A.It., in press (**2010**).

**V. Orofino et al.**, "Spectroscopic analysis of particulate samples of altered olivine and planetological implications", Mem. S.A.It., in press (**2010**).

**V. Orofino et al.**, "Spectral alteration of the meteorite Epinal (H5) induced by heavy ion irradiation: a simulation of space weathering effects on Near Earth Asteroids", Icarus, 174, 31-35 (**2005**).

**V. Orofino et al.**, "Space weathering of silicates simulated by nanosecond pulse UV excimer laser", Icarus, 108, 546-554 (**2006**).

**V. Orofino et al.**, "Optical constants of particulate minerals from reflectance measurements: the case of calcite", J. Quant. Spectr. Rad. Transf., 100, 250-**255 (2006)**.

**V. Orofino et al.**, "Cluster analysis of planetary remote sensing spectral data", J. Geophys. Res., 111, E03002, doi:10.1029/2005JE002532 (**2006**).

**V. Orofino et al.**, "Diffuse reflectance of altered olivine grains: remote sensing detection and implications for Mars studies", Plan. Space Sci., 54, 784-**793 (2006)**.

**V. Orofino et al.**,: "Modelling asteroid surfaces from observations and irradiation experiments: the case of 832 Karin", Icarus, 184, 327-**337 (2006)**.

**V. Orofino et al.**,.: "Infrared spectral properties of recent and fossil biominerals of Martian interest", Nuovo Cimento, 121 B, 833-**842 (2006)**.

**V. Orofino et al.**,.: "Infrared spectroscopy of carbonate samples of biotic origin relevant to Mars exobiological studies", Icarus, 187, 457-**463 (2007)**.

**V. Orofino et al.**,.: "Optical characterization of laser ablated silicates", Icarus, 191, 381-393 (**2007**).

**V. Orofino et al.**,.: "Scientific goals for the observation of Venus by VIRTIS on ESA/Venus

Express mission", Plan. Space Sci., 55, 1653-**1672 (2007)**.

**V. Orofino et al.**,: "On potential spectroscopic detection of microfossils on Mars", Earth, Moon and Planets, DOI 10.1007/s11038-007-9153-7 (**2007**).

**V. Orofino et al.**,: " South polar features on Venus similar to those near the north pole", Nature, 450, 637-640 (**2007**).

**V. Orofino et al.**,: "A dynamic upper atmosphere of Venus as revealed by VIRTIS on Venus Express", Nature, 450, 641-645 (**2007**).

**V. Orofino et al.**, "Crystallisation processes in cosmic silicates: Laboratory progress towards understanding structural spectral relationships", Adv. Space Res., 39, 375-391 (**2007**).

**V. Orofino et al.**,: " Statistical exploration and volume reduction of planetary remote sensing spectral data", J. Geophys. Res., 113, E12009, doi:10.1029/2008JE003219 (**2008**).

**V. Orofino et al.**,: "Evaluation of carbonate abundance in putative Martian paleolake basins, Icarus, 200, 426-435 (**2009**).

**V. Orofino et al.**,: "Time dependent degradation of biotic carbonates and the search for past life on Mars", Plan. Space Sci., Plan. Space Sci. 57, 632-639 (**2009**)

**V. Orofino et al.**,: "The Martian Atmosphere as Observed by VIRTIS-M on Rosetta Spacecraft", J. Geophys. Res., doi:10.1029/2009JE003345, in press (accepted 5 **October 2009**).

**V. Orofino et al.**,: "Infrared reflectance spectra of particulate mixtures", Jou. Geophys. Res., doi:10.1029/2009JE003461, in press (accepted 7 January **2010**).

**V. Orofino et al.**,: "Study of terrestrial fossils in phyllosilicate-rich soils: possible analogue for the search of biosignatures on Mars", Icarus, in press (**2010**).

) Facchini, A., Fonti, S., Blanco, A., D'Elia, M., Orofino, V.: "Laboratory spectral measurement of particulate samples of altered olivine and related planetological studies" Proceedings of the European Planetary Science Congress 2010, held 19-25 September in Rome, Italy, Vol. 5, EPSC2010-372 (2010).

Roush, T.L., Marzo, G.A., Fonti, S., Orofino, V., Blanco, A.: "Spectral Evidence of Aqueous Activity in Two Putative Martian Paleolakes", Proceedings of the European Planetary Science Congress 2010, held 19-25 September in Rome, Italy, Vol. 5, EPSC2010-254 (2010).

Coradini, A., ..., Orofino V., ... et al.: "The Martian Atmosphere as Observed by VIRTIS-M on Rosetta Spacecraft", J. Geophys. Res., 115, doi:10.1029/2009JE003345 (2010).

Fonti S., Montanaro S., Politi R., Blanco A., Marra A.C., Marzo G.A., Orofino V.: "Infrared reflectance spectra of particulate mixtures", Jou. Geophys. Res., 115, doi:10.1029/2009JE003461 (2010).

Orofino V., Blanco A., D'Elia M., Fonti S., Licchelli D.: "Study of terrestrial fossils in phyllosilicate-rich soils: possible analogue for the search of biosignatures on Mars", Icarus, 208, 202-206 (2010).

M. BOITI, PEMPINELLI F, A. K. POGREBKOV, B. PRINARI (2010). The equivalence of different approaches for generating multisiton solutions of the KPII equation. THEORETICAL AND MATHEMATICAL PHYSICS, vol. 165; p. 1237-1255, ISSN: 0040-5779

**F. Pempinelli et al.**, Building an extended resolvent of the heat operator via twisting transformations . THEORETICAL AND MATHEMATICAL PHYSICS pp. 721 - 733 Vol. 159, [ARTICOLO PUBBLICATO IN RIVISTA/ ID:329186] (**2009**)

**F. Pempinelli et al.**, On the extended resolvent of the nonstationary Schrodinger operator for a Darboux transformed potential. JOURNAL OF PHYSICS. A, MATHEMATICAL AND GENERAL pp. 1877 - 1898 Vol. 39, [ARTICOLO PUBBLICATO IN RIVISTA/ ID:300848] (2006)

**F. Pempinelli et al.**, Proceedings of the workshop "Nonlinear physics: theory and experiment. IV", published as a special issue of Theor. Math. Phys. 151 Issue 3; 152 Issues 1-2 Springer, New York: STATI UNITI D'AMERICA 506 [CURA DI ATTI, VOLUMI MISCELLANEI, CATALOGHI/ ID:119167] (2007)

**F. Pempinelli et al.**, Scattering transform for the nonstationary Schrodinger equation with a bidimensionally perturbed N-soliton potential. JOURNAL OF MATHEMATICAL PHYSICS pp. 123510-1 - 123510-43 Vol. 47, [ARTICOLO PUBBLICATO IN RIVISTA/ ID:100676] (2006)

F. Strafella et al., " Hi-GAL: The Herschel Infrared Galactic Plane Survey." Publications of the Astronomical Society of the Pacific 122, 314-325 (2010).

**F. Strafella et al.**, "The Blast Survey of the Vela Molecular Cloud: Physical Properties of the Dense Cores in Vela-D.", The Astrophysical Journal 707, 1836-1851 (2009).

**F. Strafella et al.**, "Pre-main Sequence Variables in the VMR-D: Identification of T TAURI-like Accreting Protostars Through Spitzer-IRAC Variability.", The Astrophysical Journal 704, 606-617 (2009).

**F. Strafella et al.**, "Candidate Microlensing Events from M31 Observations with the Loiano Telescope.", The Astrophysical Journal 695, 442-454 (2009).

**F. Strafella et al.**, Giannini et al., "Spitzer-MIPS survey of the young stellar content in the Vela Molecular Cloud-D .", Memorie della Societa Astronomica Italiana 80, 77 (2009).

**F. Strafella et al.**, "Spitzer MIPS Survey of the Young Stellar Content in the Vela Molecular Ridge-D.", The Astrophysical Journal 671, 470-482 (2007).

**F. Strafella et al.**, "Total to Selective Extinction in the Dark Globule CB 107.", The Astrophysical Journal 668, 316-330 (2007).

**F. Strafella et al.**, "Probing MACHOs by observation of M 31 pixel lensing with the 1.5 m Loiano telescope.\ Astronomy and Astrophysics 469, 115-119 (2007).

**F. Strafella et al.**, "Optical and Near-IR Imaging of the Dark Globule CB 52.", The Astrophysical Journal 661, 926-937 (2007).

**F. Strafella et al.**, "A new analysis of the MEGA M 31 microlensing events." Astronomy and Astrophysics 462, 895-902 (2007).

**F. Strafella et al.**, "Mapping Molecular Emission in Vela Molecular Ridge Cloud D.", The Astrophysical Journal 655, 316-331 (2007).

**F. Strafella et al.**, "Structural analysis of molecular cloud maps: the case of the star forming Vela-D cloud.", IAU Symposium 237, 411-411 (2007).

**F. Strafella et al.**, Campeggio et al., "Comparing the structure of three dark globules." IAU Symposium 237, 399-399 (2007).

**F. Strafella et al.**, "Monte Carlo analysis of MEGA microlensing events towards M 31.", Astronomy and Astrophysics 445, 375-385 (2006).

**F. Strafella et al.**, "Large-scale mapping of molecular clouds: what can we learn?." Memorie

della Societa Astronomica Italiana Supplement 10, 165 (2006).

**A. Ventura et al**, “The Muon High Level Trigger of the ATLAS experiment”, Computing in High Energy and Nuclear Physics, ATL-DAQ-PROC-2009-010 to be published in Journal of Physics: Conference Series **(2010)**

**A. Ventura et al**, “Muon reconstruction at the last trigger level of the ATLAS experiment”, 11<sup>th</sup> International Conference on Astroparticle, Particle, Space Physics, Detectors and Medical Physical Applications, ATL-DAQ-PROC-2009-041 (2009) to be published in Journal of Physics: Conference Series **(2010)**

**A. Ventura et al**, “Readiness of the ATLAS Liquid Argon Calorimeter for LHC Collisions”, arXiv:0912.2642, submitted to European Physical Journal C (2010)

**A. Ventura et al**, “Study of the ATLAS MDT Spectrometer using High Energy CERN combined Test beam Data”, Nuclear Instruments and Methods in Physics Research, A 598 400-415 (2009)

**A. Ventura et al**, “Expected performance of the ATLAS experiment, CERN-OPEN-2008-020, arXiv:0901.0512 **(2009)**

**A. Ventura et al**, “Prospects for SUSY discovery based on inclusive searches with the ATLAS detector”, Journal of Physics: Conference Series 171 012087 (2009)

**A. Ventura et al**, “Collider aspects of flavour physics at high Q”, European Physical Journal, C57 183-308 (2008)

**A. Ventura et al**, “The ATLAS Experiment at the CERN Large Hadron Collider”, 2008 JINST 3 S08003 1-407 (2008)

**A. Ventura et al**, “The ATLAS Muon Trigger vertical slice at LHC startup”, XII International Workshop on Advanced Computing and Analysis Techniques in Physics Research, PoS ACAT08:092 (2008)

**A. Ventura et al**, “Software Validation Infrastructure for the ATLAS High-Level Trigger”, XII International Workshop on Advanced Computing and Analysis Techniques in Physics Research, PoS ACAT08:084 (2008)

**A. Ventura et al**, “Event reconstruction algorithms for the ATLAS trigger”, International Conference on Computing in High Energy and Nuclear Physics Journal of Physics: Conference Series 119 **022022 (2008)**

**A. Ventura et al**, “The ATLAS Trigger – Commissioning with cosmic rays”, International Conference on Computing in High Energy and Nuclear Physics Journal of Physics: Conference Series 119 **022014 (2008)**

**A. Ventura et al**, “Integration of the Trigger and Data Acquisition Systems in ATLAS”, International Conference on Computing in High Energy and Nuclear Physics Journal of Physics: Conference Series 119 **022001 (2008)**

**A. Ventura et al**, “The ATLAS Muon Trigger ‘Slice’”, IEEE Transactions on Nuclear Science, 55 **151-157 (2008)**

**D. del Re and A. Ventura**, “Beyond Standard Model and Exotics: Experimental overview”, Il Nuovo Cimento B123:517-522 (2008)

**A. Ventura et al**, “The Muon Trigger in ATLAS”, XI International Workshop on Advanced Computing and Analysis Techniques in Physics Research, PoS ACAT:054 (2007)

**A. Ventura et al**, “The ATLAS Data Acquisition and Trigger: concept, design and status”,

10<sup>th</sup> Topical Seminar on Innovative Particle and Radiation Detectors, Nucl.Phys.Proc.Suppl. B172:178-182 (2007)

**A. Ventura et al**, “The ATLAS Trigger Muon Vertical Slice”, 10<sup>th</sup> Topical Seminar on Innovative Particle and Radiation Detectors, Nucl.Phys.Proc.Suppl. B172:289-291 (2007)

**A. Ventura et al**, “The ATLAS trigger muon ‘vertical slice’”, Nuclear Instruments and Methods in Physics Research, A 572 139-140 (2007)

**A. Ventura et al**, “Status report on the KLOE measurement of the hadronic cross section with ISR”, Nucl.Phys.Proc.Suppl. B169:277-281 (2007)

**A. Ventura et al**, “Charged kaon lifetime at KLOE”, hep-ex/0705.4408 (2007)

**A. Ventura et al**, “Overview of the high-level trigger electron and photon selection for the ATLAS experiment at the LHC”, IEEE Transactions on Nuclear Science, 53 2839-2843 (2006)

**A. Ventura et al**, “Deployment of the ATLAS high-level trigger”, IEEE Transactions on Nuclear Science, 53 2144-2149 (2006)

**A. Ventura et al**, “Muon identification with the Event Filter of the ATLAS experiment at CERN LHC”, IEEE Transaction on Nuclear Science, 53 870-875 (2006)

**A. Ventura et al**, “Implementation and performance of the seeded reconstruction for the ATLAS event filter”, IEEE Transactions on Nuclear Science, 53 864-869 (2006)

**A. Ventura et al**, “Implementation and performance of the third level muon trigger of the ATLAS experiment at LHC”, IEEE Transactions on Nuclear Science, 53 500-505 (2006)

**A. Ventura et al**, “ATLAS RPC QA results at INFN Lecce”, XXV Physics in Collision, AIP Conf.Proc.815:285-290 (2006)

**A. Ventura et al**, “Charged kaons at KLOE”, Nucl.Phys.Proc.Suppl. B162:211-215 (2006)

**A. Ventura et al**, “Neutral kaons at KLOE”, Nucl.Phys.Proc.Suppl. B162:205-210 (2006)

**A. Ventura et al**, “ $\phi$  radiative decays at KLOE”, Nucl.Phys.Proc.Suppl. B162:108-113 (2006)

**A. Ventura et al**, “ $\phi$  meson physics”, Nucl.Phys.Proc.Suppl. B162:103-107 (2006)

**A. Ventura et al**, “Measuring the Pion Form Factor via Radiative Return at large photon angles with KLOE”, Nucl.Phys.Proc.Suppl. B162:95-99 (2006)

**A. Ventura et al**, “Measuring the Pion Form Factor at KLOE with photons at small angles”, Nucl.Phys.Proc.Suppl. B162:90-94 (2006)