

of H

1) Variational Basis Representation

$$H^{\text{VBR}} = K + V$$

omolitical $\nearrow$ accurate (10^{-7})

2) Finite Basis Representation

$$H^{\text{FBR}} = K + V^{\text{FBR}}$$

omolitical $\nearrow$ Gaussian quadrature

3) Discrete Variable Representation

$$H^{\text{DVR}} = T^* K T + V^{\text{DVR}}$$

omolitical $\nearrow$ diagonal $V(x_i) \delta_{ij}$

In the last two the variational principle
is NOT VALID