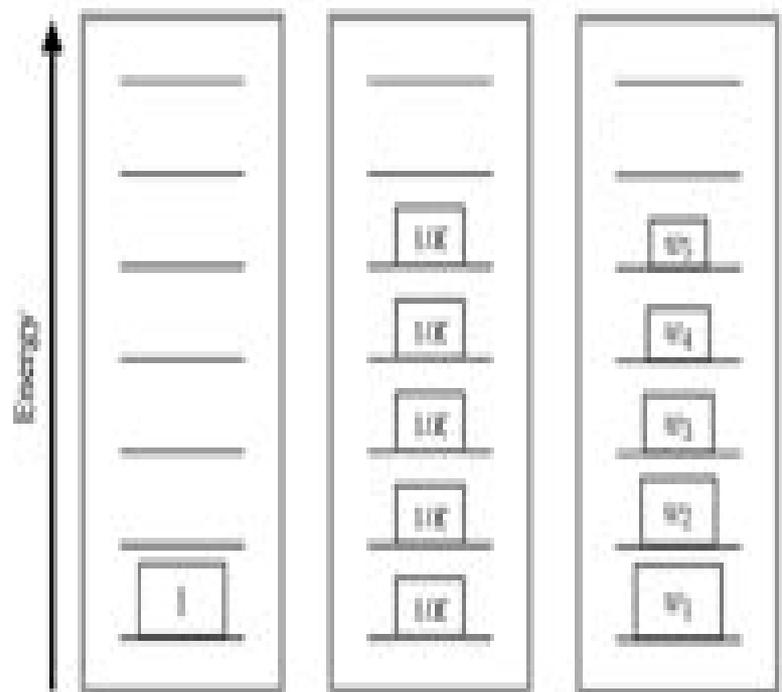


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Rayleigh-Ritz (RR)

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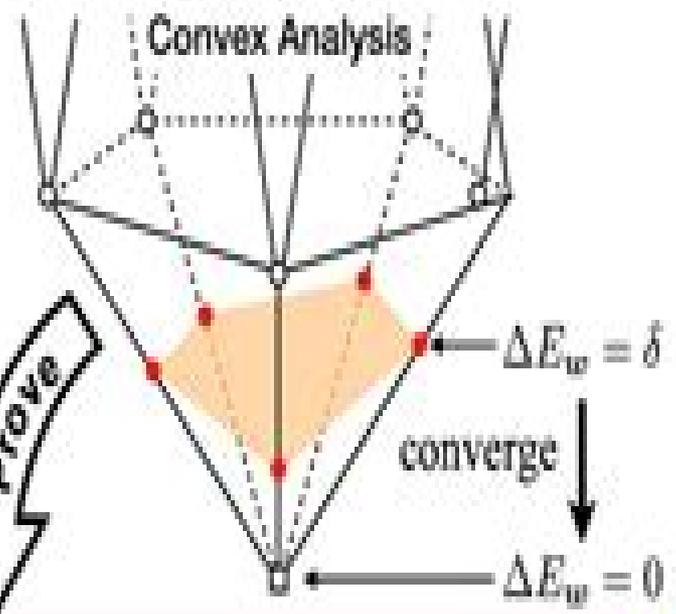
Ground state

Subspace of K lowest eigenstates

K lowest eigenstates

Rationalize

Prove



Universal Error Estimate
 for any physical quantity Q :

$$d_{-}^{(Q)} \Delta E_w \leq \Delta Q \leq d_{+}^{(Q)} \Delta E_w$$

Variational Principles

KJ Lindholm-Leary



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