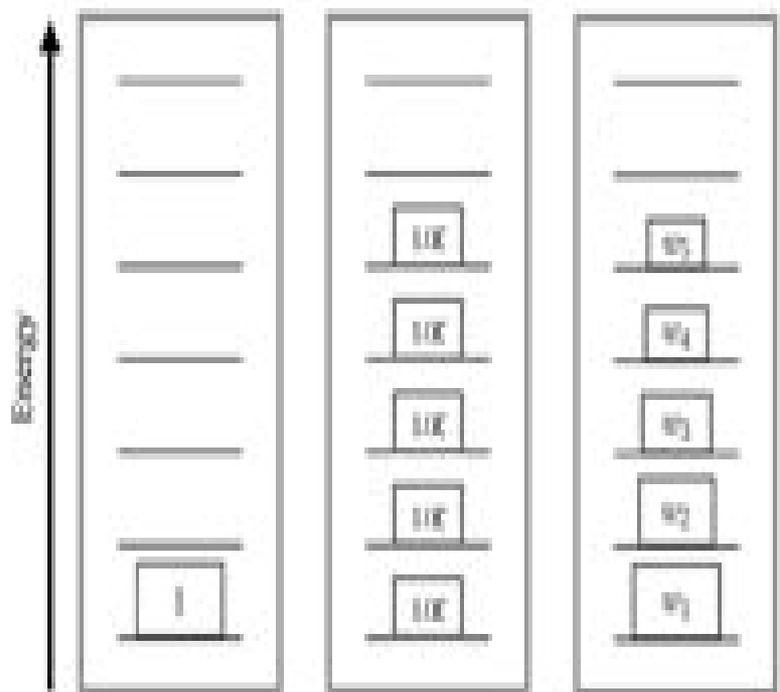


# Variational Principles



Rayleigh-Ritz (RR)

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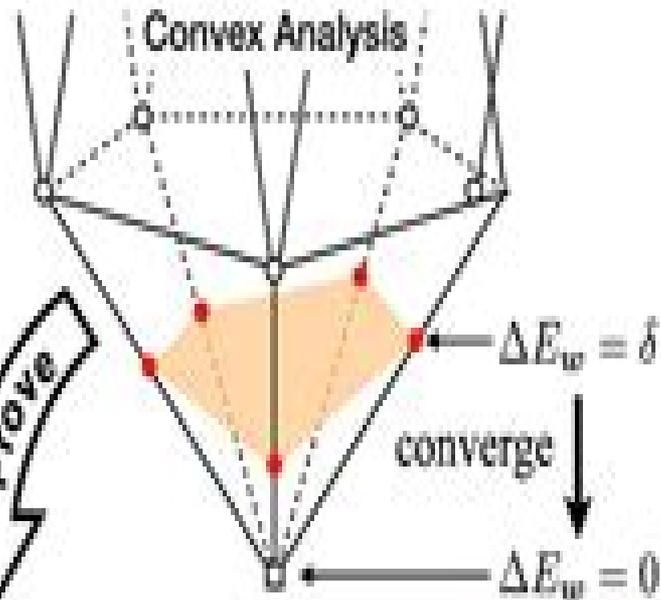
Ground state

Subspace of K lowest eigenstates

K lowest eigenstates

Rationalize

Prove



**Universal Error Estimate**  
 for any physical quantity  $Q$ :

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

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**Karin Nielsen-Saines**



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