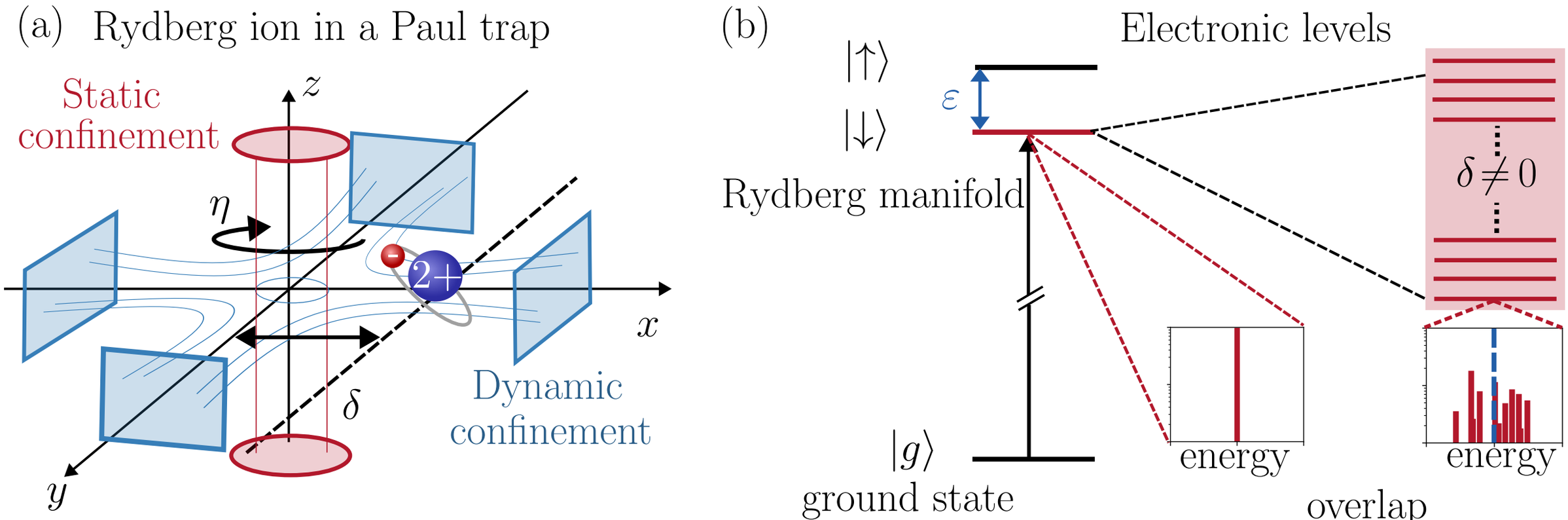
(a) Rydberg ion in a Paul trap
Static confinement
z
η
2+
x
δ
Dynamic confinement
y
(b)
Electronic levels
|↑⟩
ε
|↓⟩
Rydberg manifold
δ ≠ 0
|g⟩
ground state
energy
energy
overlap