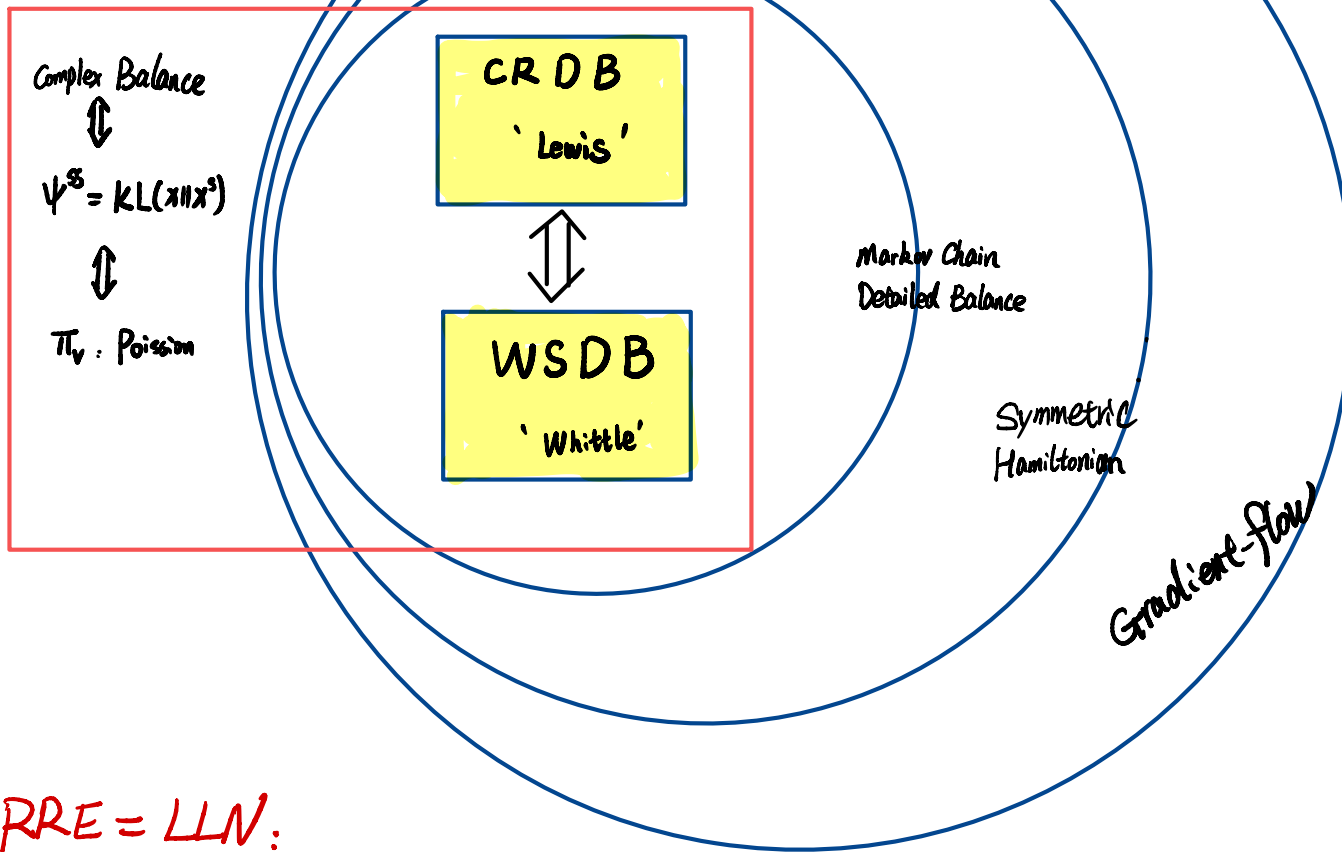


NESS



* $PRE = LLN$:

$$\dot{x} = \underbrace{-K(x) \nabla \psi^{ss}}_{\text{Gradient Flow}} + \underbrace{\int_0^1 \partial_p H(\theta \nabla \psi^{ss}, x) d\theta}_{\text{Hamiltonian Flow}} \quad \underbrace{\quad}_{\text{LVE}}$$

$$\underbrace{T \dot{S}}_{\text{Total}} = \underbrace{T \dot{S}_a}_{\text{Housekeeping}} + \underbrace{T \dot{S}_{na}}_{-KT \dot{\psi}^{ss}}$$

* LDP : Varadhan's nonlinear semigroup \rightarrow Lax-Oleinik's semigroup (Viscosity Sol to HJE)