

Detailed Balance Always Wins in the End ... If You Let It!

Building Coherence with Strong Electronic Coupling

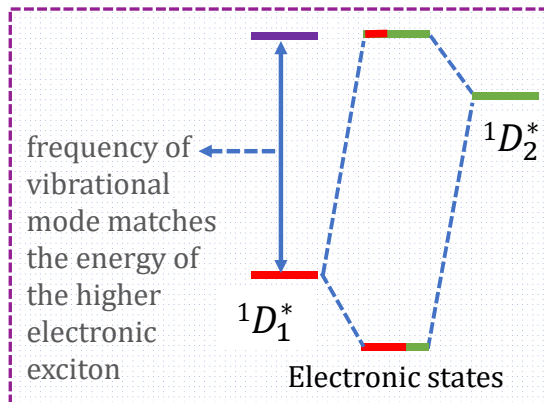
Can we make population flow uphill?

- What is the optimal level structure?
- What is the optimal vibronic coupling?

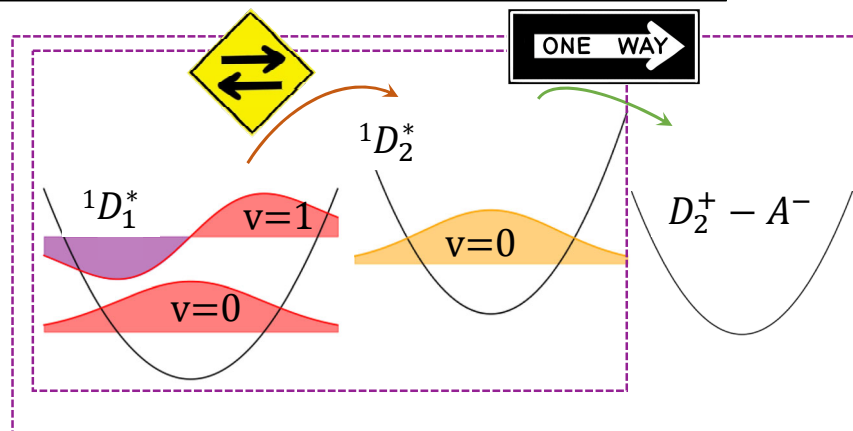
In the absence of an acceptor species, the populations in the D1-D2 system obey detailed balance.

The acceptor acts as a ratchet, resulting in deposition of population at the acceptor.

Inclusion of Herzberg Teller mixing causes more coherent transport at shorter timescales.



Directing Particles & Quasiparticles Coherently



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