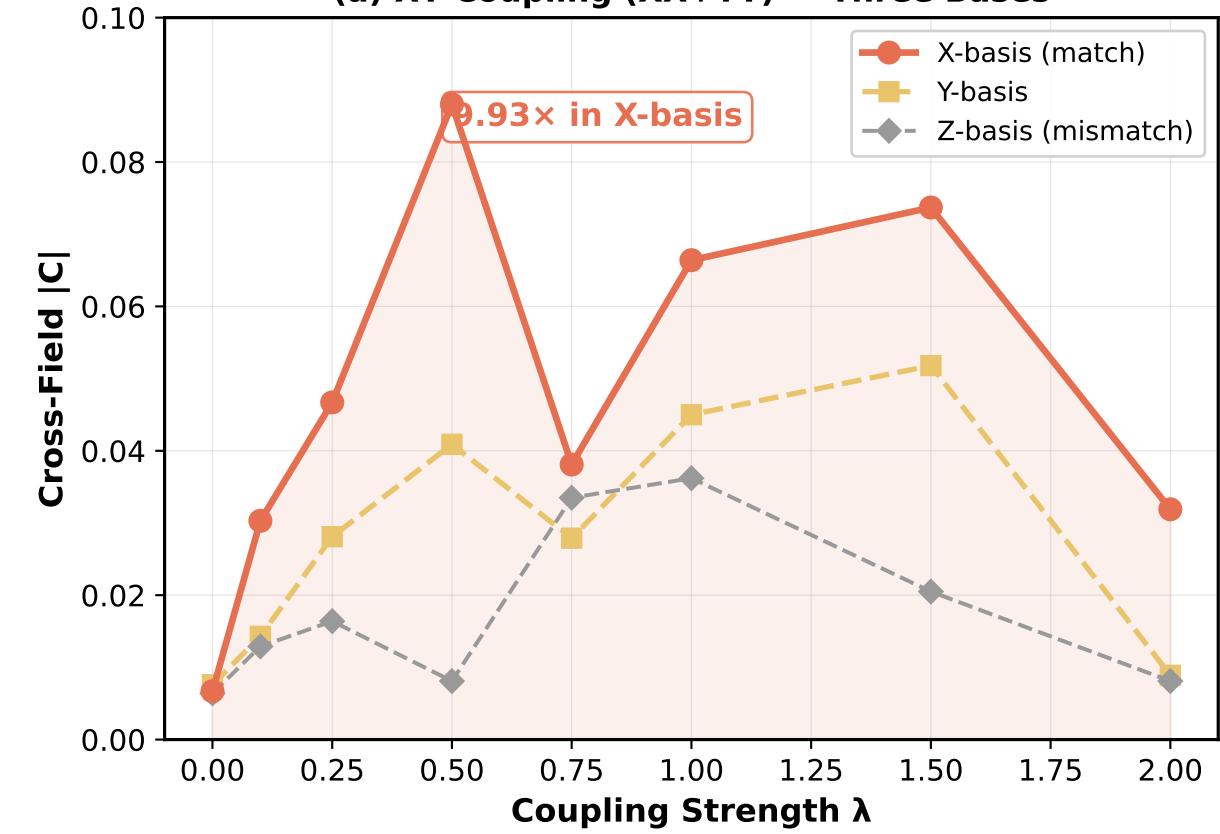


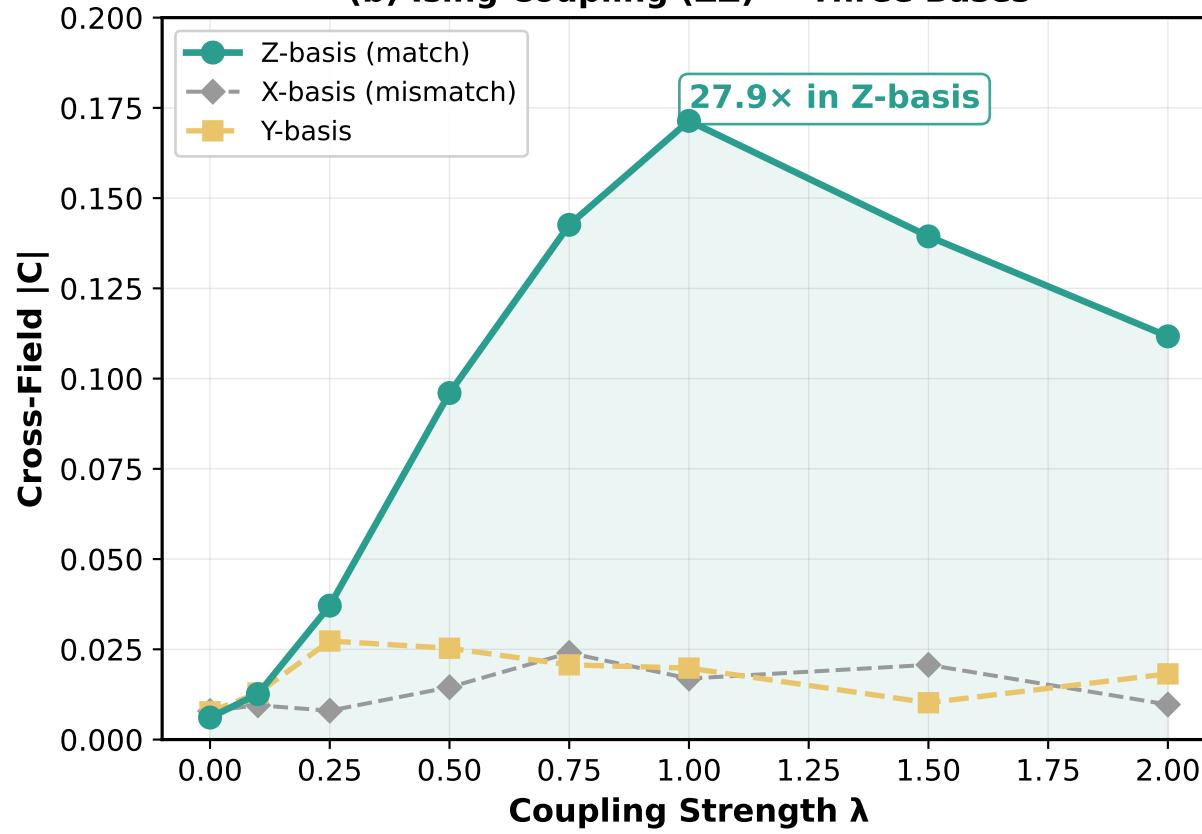
# Basis-Dependent Emergent Geometry: Measurement Must Match Coupling

Andrew Thurlow · 528 Labs · IBM Torino

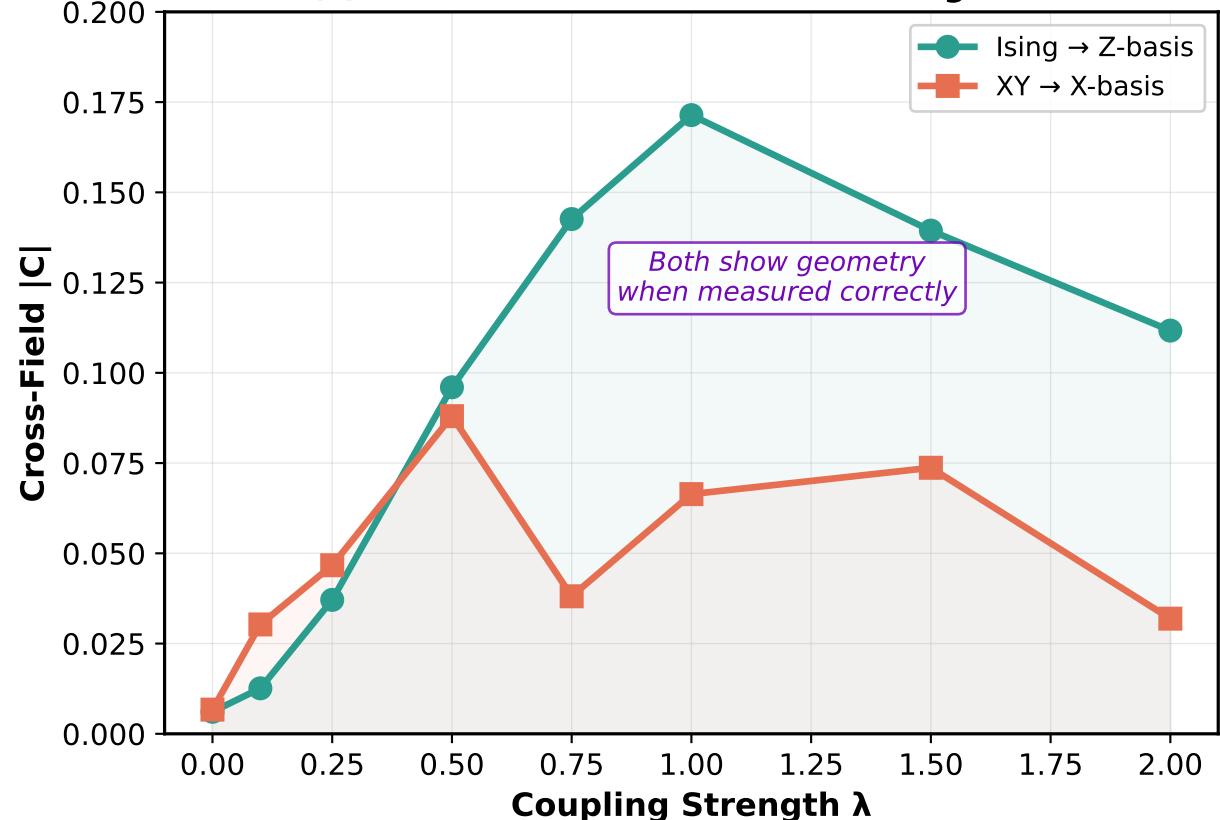
**(a) XY Coupling ( $XX+YY$ ) — Three Bases**



**(b) Ising Coupling ( $ZZ$ ) — Three Bases**



**(c) Each Hamiltonian in Its Matching Basis**



**(d) Geometry Requires Matching Basis**

