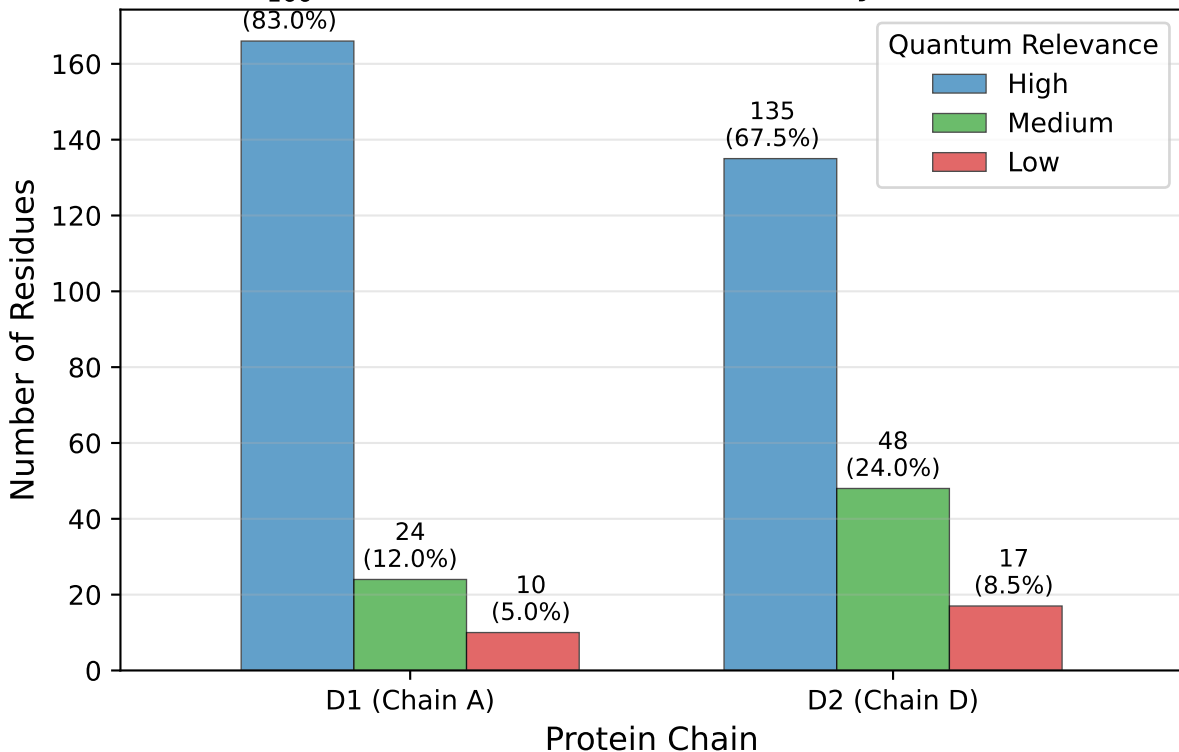


Distribution of Quantum Relevance by Protein Chain



D1 has a significantly higher proportion of high quantum relevance residues (83.0%) compared to D2 (67.5%), consistent with D1's primary role in electron transfer.