

# How to count in hierarchical landscapes: quenched complexity for the spherical models

Jaron Kent-Dobias

*INFN Sezione Di Roma, Rome, Italy*

Complex landscapes are characterized by their many saddle points. Determining their number and organization is a long-standing problem, in particular for tractable Gaussian mean-field potentials, which include glass and spin glass models. The annealed approximation is well understood, but is generically not exact. Here we describe the exact quenched solution for the general case, which incorporates Parisi's solution for the ground state, as it should. We investigate two explicit examples, one with a 1RSB complexity, and one with a full RSB complexity.