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## Probing the nature of phases across the phase transition at finite isospin chemical potential

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We compare the low eigenvalue spectra of the Overlap Dirac operator on two sets of configurations at  $\mu_I/mu_I^c = 0.5$  and  $1.5$  generated with dynamical staggered fermions at these isospin chemical potential on  $24^3 \times 6$  lattices. We find very small changes in the number of zero modes and low lying modes across the transition which is in stark contrast with those across the corresponding finite temperature phases where one sees a drop across the phase transition. Possible consequences are discussed.

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