

Physics Seminar: Tom Shachar

Wednesday, September 20 · 2:00 – 3:00pm

Location: 313

Title: RG flows on two-dimensional spherical defects

Abstract: The irreversibility of RG flows on conformal defects has been a subject of great interest recently. In this talk I will present an entropy function defined on 2D spherical defects, interpolating between the defect anomaly coefficient at the fixed points. We reproduce the IR sum-rule proving irreversibility and show that the function is perturbatively monotonically decreasing. We consider an interesting example using self-adjoint extension, with a limiting case where the epsilon expansion breaks down.