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Holographic RG from Exact RG

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Holographic RG is the interpretation of the AdS-CFT correspondence as RG evolution of boundary theory. The radial coordinate is interpreted as the scale of the boundary theory. This allows a new physical way of looking at the correspondence. But, the precise regularisation of the boundary theory that allows this interpretation hasn't been looked at. I will show one such regularisation using ERG formalism. I will write down the ERG equation for the scalar, vector and tensor of boundary $O(N)$ theory. I will explicitly redefine the Exact RG evolution operator that corresponds to this equation as the bulk AdS action, thus making the connection precise.

Presenter: DHARANIPRAGADA, Pavan**Session Classification:** Poster