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Photon emission in the vicinity of a critical point

Wednesday 1 June 2016 11:00 (30 minutes)

We address holographically (i) an emulation of deconfinement upon temperature increase as sequential or instanteneous melting (disappearence) of normalizable eigenmodes of hadron states with a Regge type spectrum in vacuum, and (ii) the phase diagram within the updated DeWolfe-Gubser-Rosen model. Photon emission rates are calculated and found to map out the pecularities (CEP and first-order phase transition) of the phase diagram emerging from a quark-meson model with linearized fluctuations.

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