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The holographic correspondence at finite temperature

In the context of holography, a black hole horizon is commonly introduced to model finite temperatures. However, this choice is not unique. We investigate the minimal features that a more general metric should display in order to describe a system at a finite temperature, using semi-analytical techniques and well-established holographic superconductor models as our testing ground. The conclusions of our analysis can be generalised to holographic QCD and beyond the SM strongly-coupled models and could potentially add to the current computational efforts in particle physics.

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