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Non-extensive Thermodynamics of Black Holes

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Hawking temperature has been widely utilized in the literature as the temperature corresponding to various nonextensive entropies. In this talk, I will talk about the compatibility of Hawking temperature with the nonextensive entropies and demonstrate that, for every nonextensive entropy, one may define an effective temperature by utilizing the equilibrium condition, and that there is always an additive equilibrium entropy associated with this effective temperature.

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