

Tuesday, February 14 @ 4:00 PM

Physics & Astronomy Building (PAB) 4-330

Logarithmic Corrections to Black Hole Entropy

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Logarithmic corrections to black hole entropy offer a robust infrared window into ultraviolet structure of quantum black holes. We study these corrections for Kerr-Newman black holes embedded in N=2 supergravity and show that logarithmic corrections simplify greatly even when the black holes do not preserve any supersymmetry. The result can be recast as the vanishing of the trace anomaly $c=0$ in 4D supergravity.