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Where is the PdV term in the first law of black hole thermodynamics?

Wednesday 22 May 2013 17:00 (15 minutes)

A PdV term is introduced into the first law of black hole thermodynamics, with the volume being defined to be the variable thermodynamically conjugate to the pressure that arises from the cosmological constant. The black hole equation of state then bears a remarkable similarity to the van der Waals equation. The effect of this new term in the equation of state will be explored.

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