

# Black Hole Thermodynamics - Lecture 1

*Monday, 15 July 2019 14:15 (1:15)*

## Content

These lectures will give a comprehensive introduction to black hole thermodynamics. The basic properties of black holes will be reviewed. The first law of black hole mechanics will be derived, and the notion of black hole entropy will be thereby introduced. The notion of canonical energy will be introduced and used to show that dynamical stability of a black hole is equivalent to its thermodynamic stability. A brief discussion will be given of quantum aspects of black hole thermodynamics.

## Summary

**Presenter(s) :** WALD, Robert (Chicago University, USA)

**Session Classification :** notitle