



Contribution ID: 68

Type: **Invited Speaker / Conférencier invité**

Testing Black Hole Physics with the Event Horizon Telescope

Tuesday 17 June 2014 14:15 (30 minutes)

The Event Horizon Telescope, a millimetre-wave Earth-sized interferometer, provides unprecedented access to the physics and astrophysics of supermassive black holes. Already observed, the black holes at the centres of the Milky Way and the giant elliptical galaxy M87 provide a glimpse into the mechanisms of accretion, relativistic jet formation, and even the nature of black holes themselves. I will discuss how interpreting these observations within a highly successful theoretical framework and broader observational context has allowed us to begin to answer some of the fundamental questions in black hole science, including the nature of low-luminosity accretion flows, the role of spin in powering relativistic outflows, and structure of spacetimes around astrophysical black holes.

Author: Prof. BRODERICK, Avery (University of Waterloo, Perimeter Institute for Theoretical Physics)

Presenter: Prof. BRODERICK, Avery (University of Waterloo, Perimeter Institute for Theoretical Physics)

Session Classification: (T2-1) Theoretical Astrophysics - DTP / Astrophysique théorique - DPT

Track Classification: Theoretical Physics / Physique théorique (DTP-DPT)