



千葉大学大学院理学研究科附属

ハドロン宇宙国際研究センター
International Center for Hadron Astrophysics

Feb. ICEHAP Seminar

Feb. 27, Monday, 2:30pm, 2017

place: ICEHAP Office(Engineering Reserch Bldg 1, Room 609-1)

Prof. Chris Done

(University of Durham, UK and JSPS Fellow ISAS/JAXA)

**"How to connect black hole binary observations
with MRI simulations"**

A b s t r a c t

Accretion onto black holes is ultimately enabled by the magnetic dynamo which transports angular momentum outwards, allowing material to accrete inwards. However, if we have to wait until we can do global radiative MHD calculations in full general relativity to understand this accretion flow then we will be waiting a long time.

I will describe instead how we can get answers faster by splitting the problem up, into issues which absolutely require MHD simulations and those where the fundamental physical processes are accessible with simpler hydrodynamics modelling.

In particular I will stress that we need full MHD to understand black hole accretion flows at low mass accretion rates and the highly relativistic jets which are seen from some supermassive black holes.

Location

西千葉キャンパスマップ
NISHI CHIBA CAMPUS
MAP

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