



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

## 2月 ICEHAP Seminar

2017年2月27日(月)午後2:30~

場所: 工学系総合研究棟1、6階、609-1号室)

### 講師: Chris Done氏

(Durham大学 (イギリス)、 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

CHIBA UNIVERSITY

〒263-8522  
千葉市稲毛区弥生町1-33  
千葉大学大学院理学研究科

1-33 Yayoi-cho, Inage-ku  
Chiba 263-8522

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 [ICEHAP]



Contact: 043-290-2763 [ Division of Neutrino Astrophysics ] 043-290-2885 [ Division of Plasma Astrophysics ]