

September 28, 2012

MONDAY 8 October, 2012

Notice: All presentations are 30' (45' slots include 15' of questions)

09:00-09:20	Registration in ISSI Hallerstrasse 6, 1 st floor	
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09:20-09:30	Introduction to ISSI and the Workshop	R. M. Bonnet/M. Falanga
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Session 1 Introduction

Chairman: T. Belloni

09:30-10:15	Historical perspective	Ken Pounds
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10:15-10:45	<i>Coffee break</i>	
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**Session 2 Physical models for the accretion flow around
black holes**

Chairman: M. Gilfanov

10:45-11:30	General overview of accretion theory	Omer Blaes
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11:30-12:15	Spectral formation (broad band)	Juri Poutanen
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12:15-14:00	<i>Lunch</i>	
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14:00-14:45	Current status of simulations	Chris Fragile
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14:45-15:30	Observational checks of the picture	Tom Maccarone
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15:30-16:15	X-ray Polarization from Accreting Black Holes	Li-Xin Li
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16:15-16:45	Discussion	
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17:00	<i>Welcome reception</i>	
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TUESDAY 9 October, 2012

Session 3 Accretion on black holes from stellar mass to supermassive

Chairman: T. Courvoisier

9:00-9:45	Observational appearance of black holes: X-ray binaries	Marat Gilfanov
9:45-10:30	Observational appearance of black holes: ULXs and AGN (fundamental plane)	Andrea Merloni
10:30-11:00 <i>Coffee break</i>		
11:00-11:45	The various ways of feeding the holes	Bence Kocsis
11:45-12:30	Black-hole merging and the last parsec problem	Monica Colpi
12:30-14:00 <i>Lunch</i>		
14:00-14:30	Discussion	

Session 4 Black-hole fundamental parameters

Chairman: C. Reynolds

14:30-15:15	Overview of mass determinations in stellar-mass BHs	Jorge Casares
15:15-16:00	Prospects for mass determinations in intermediate-mass BHs	Peter Jonker
16:00-16:30 <i>Coffee break</i>		
16:30-17:15	Mass (supermassive including Sgr A*)	Bradley Peterson
17:15-18:00	Spin (continuum measurements)	Jeff McClintock

ISSI Workshop on “The Physics of Accretion onto Black Holes”

8-12 October 2012

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WEDNESDAY 10 October, 2012

Chairman: L. Stella

09:00-09:45 Spin (lines)

Chris Reynolds

09:45-10:30 Spin (timing)

Tomaso Belloni

10:30-11:00 *Coffee break*

11:00-11:45 Evidence for black-hole horizon, ISCO detection, and material beyond the ISCO

Elmar Koerding/Heino Falcke

11:45-12:15 Discussion

12:15-14:00 *Lunch*

14:00-19:00 Free time to visit the attractions of Bern
Also: All ISSI facilities are available for small group discussions

19:00 Workshop dinner at the CASINO restaurant, Bern

THURSDAY 11 October, 2012

Session 5 Accretion jets outflows

Chairman: A. Merloni

09:00-09:45 Overview of jets and outflows in XRB

Rob Fender

09:45-10:30 Outflows in AGN

Ken Pounds

10:30-11:00 Coffee break

11:00-11:45 Launching mechanisms

Ken Ohsuga

11:45-12:30 Energetic and broad-band spectral distribution

Asaf Pe’er

12:30-14:00 Lunch

14:00-14:45 Interaction with the environment (jets)

Sebastian Heinz

14:45-15:30 Interaction with the environment (outflows)

Andrew King

15:30-16:00 Coffee break

16:00-16:45 The accretion/ejection interaction

Elena Gallo

16:45-17:30 The accretion/ejection interaction at the shortest timescales

Piergiorgio Casella

17:30-18:00 Discussion

FRIDAY 12 October, 2012

6. Overview and outlook

Chairman: K. Pounds

09:00-09:45 Future of Space X-ray Astronomy

Maurizio Falanga

09:45-10:30 Overview and outlook (at all wavelengths)

Tom Maccarone

10:30-11:00 Coffee break

11:00-12:30 Discussion book (authors Book plans, actions, schedule)

End of Workshop

12:30-13:00 Conveners meeting (if need be)
