

ISSI WORKSHOP ON “Using Tidal Disruption Events to Study Super-Massive Black Holes ”

8-12 October 2018

1

DRAFT: October 11, 2018

MONDAY OCTOBER 8

15:00-15:20	Registration in ISSI Hallerstrasse 6, 1 st floor	
15:20-15:40	Introduction to ISSI and to the Workshop	ISSI Director (TBD) & Peter Jonker
1. Theory of TDEs		
		Chair: Elena Rossi
15:40-16:00	Rates	Nick Stone
16:00-16:20	Circularization	Clement Bonnerot
16:20-16:40	Accretion Disks	Jane Dai
16:40-17:00	Black Hole Binaries	Giuseppe Lodato

TUESDAY OCTOBER 9

2. Observations of TDEs

Chair: Katie Auchetti

09:30-09:50	X-ray selected candidates	Richard Saxton
09:50-10:10	Gamma-ray selected candidates	Ashley Zauderer
10:10-10:30	Optical-UV selected candidates	Iair Arcavi
10:30-11:00	<i>Coffee break</i>	
11:00-11:40	Radio observations	Kate Alexander
11:40-12:30	Echoes, Reverberation, Timing	Sjoert van Velzen, DJ Pasham
12:00-14:00	<i>Lunch</i>	
3. Theory of TDEs		Chair: Jane Dai
14:30-14:50	Future facilities	Andrea Merloni
14:50-15:10	Simulation Methods	Giuseppe Lodato
15:10-15:30	Emission Mechanisms	Nathan Roth
15:50-16:10	<i>Coffee break</i>	
16:10-16:30	Disruption	James Guillochon (Skype/Zoom)
	Welcome ISSI Director	
19:00	Workshop dinner at Kornhauskeller Restaurant	

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2

WEDNESDAY OCTOBER 10

4. Observations of and around TDEs

Chair: Sjoert van Velzen

09:30-09:50	Disruption of WDs	Kate Maguire
09:50-10:10	Stellar binaries	Elena Rossi
10:10-10:30	Future modeling	Julian Krolik

10:30-11:00 Coffee break

11:00-11:20	Other candidates and impostors	Hagai Perets
11:20-11:40	Host galaxies	Decker French
11:40-12:00	Multi-Messenger	Nick Stone
Free time (ISSI facilities are available)		

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3

THURSDAY OCTOBER 11

5. New developments

Chair: Nick Stone

09:30-9:50	A unified model for TDEs	Jane Dai
09:50-10:10	Late time UV emission of TDEs	Nick Stone
10:10-10:30	A new class of flares form SMBHs	Benny Trakhtenbrot
10:30-11:00	<i>Coffee break</i>	
11:00-11:20	A new X-ray TDE	Richard Saxton
11:20-11:40	TDEs around active AGN	Tsvi Piran
11:40-12:00	Black hole masses of optical and X-ray TDEs	Thomas Wevers
12:00-14:00	<i>Lunch</i>	
		Chair Kate Maguire
14:00-14:20	Micro-TDEs	Hagai Perets
14:20-14:40	Stellar rotation in TDEs	Giuseppe Lodato
14:40-15:00	Late time UV emission of TDEs	Nick Stone/Sjoert van Velzen
15:00-15:30	<i>Coffee break</i>	
15:30-17:00	Discuss Chapter Synergies/work on chapters	ALL
17:00	Chapter presenters send the conveners your remaining list of issues to discuss with the group on Friday.	

FRIDAY OCTOBER 12

6. Feedback

Chair: Ashley Zauderer

09:30-10:30	Discussion on Chapter Synergies	ALL
10:30-11:00	<i>Coffee break</i>	
11:00-13:00	Discussion of Chapter Synergies	ALL
13:00-13:30	Book policies, technical issues and book deadlines	Peter Jonker
13:30	<i>Adjourn</i>	