

The More Things Change...

- Single-object studies -> ***population studies***
- Many more (and better!) observations of ***rising phase of light curve***
- Observations of ***very late-time*** TDE emission
- Increasingly realistic studies of stellar disruption (***composition, internal structure***, etc)
- More sophisticated semi-analytic accretion models (***eccentric/relativistic disks***)
- Increasing treatment of ***selection effects***

...The More They Stay The Same

- ***Circularization/disk formation*** questions remain open, challenging
- Importance of ***nozzle shock*** remains elusive
- X-ray/optical ***unification*** still unclear
- No smoking gun evidence for ***optical/UV power source***
- Where are the ***on-axis TDE jets***? (>8 years!)

Upcoming Challenges

- ***Identifying/characterizing TDEs*** in the era of large surveys
- Explore space of ***TDE impostors***
- Making ***falsifiable*** predictions for optical emission models/accretion scenarios
- Resolving ***tensions in parameter inference***
- Finding ***exotic/rare TDE*** signatures (WD disruption/detonation, GWs, ultra-deep X-ray flashes, TDEs in AGN...)

- First open/international TDE workshop in East Asia!
- Good for international collaboration on TDEs
- Valuable for non-Asian researchers to learn about upcoming missions (e.g. Einstein Probe, DECIGO, TianQin...)
- Who in this audience will organize the next Asian TDE conference?

Tidal Disruptions in Kyoto

Confronting Theory with Observations

January 14-16, 2020

Yukawa Institute for Theoretical Physics
Kyoto University, Japan



Photo by Ash Edmonds on Unsplash

Invited Speakers Include Kate Alexander (NWU), Katie Auchettl (DARK/NBI), Clement Bonnerot (Caltech), Thomas Holoién (Carnegie Obs), Tiara Hung (UMD), Giuseppe Lodato (U Milano), DJ Pasham (MIT), Elena Maria Rossi (Leiden U), Nathan Roth (UMD), Ataru Tanikawa (U Tokyo), Weimin Yuan (NAOC/CAS)

<http://www2.yukawa.kyoto-u.ac.jp/~tde2020/TDK/>

SOC:

Iair Arcavi (Tel Aviv U)
Edo Berger (Harvard U/CfA)
Jane Dai (HKU)
Suvi Gezari (UMD)
Kimitake Hayasaki (CBNU, chair)
Kunihito Ioka (YITP)

Peter Jonker (SRON/Nijmegen U)
Abraham Loeb (Harvard U/CfA/BHI)
Stefan Rosswog (Stockholm U)
Nicholas Stone (Hebrew U, co-chair)
Sjoert van Velzen (NYU/UMD)

LOC:

Kimitake Hayasaki (CBNU, chair)
Kunihito Ioka (YITP)
Naoki Sero (Kyoto U)
Nicholas Stone (Hebrew U, co-chair)
Takahiro Tanaka (Kyoto U/YITP)
Ryo Yamazaki (AGU)