

Big Data in Astronomy

14-18 | Dec 2015
Tel Aviv University

Workshop Program



The Raymond and Beverly Sackler
TAU – Harvard/ITC
Astronomy Program



Monday | Dec 14

Planets, Binaries, and more

Jaglom Auditorium, Senate Building (location 1)

09:40-10:00 | Gathering

10:00-10:40

[T. Henning](#) | Large exoplanet transit surveys

10:40-11:20

[T. Mazeh](#) | The search for the BEER effects in the Kepler and CoRoT databases

11:20-12:00 | Coffee

12:00-12:40

[A. Vandenburg](#) | Searching for Exoplanets with K2

12:40-14:00 | Lunch

14:00-14:40

[S. Zucker](#) | The GATE initiative: transiting planets in Gaia

14:40-15:20 | Coffee

15:20-16:00

[A. Ofir](#) | Perturbative Approach to TTVs/TbVs

16:00-16:40

[N. Gianniotis](#) | Autoencoding Astronomical Time Series for Visualisation

16:40-17:20

[A. Brown](#) | Big Data challenges in the Gaia data processing

17:30 | Reception

The Capsule Building, The Porter School of Environmental Studies, Tel Aviv University (location 2)

Tuesday | Dec 15

Variable Stars

011 Hall, Wolfson Building (location 3)

09:40-10:00 | Gathering

10:00-10:40

[A. Udalski](#) | OGLE-IV: the Large Scale Sky Variability Survey

10:40-11:20

[I. Soszyński](#) | The OGLE Collection of Variable Stars

11:20-12:00 | Coffee

12:00-12:40

[H.W. Rix](#) | Combining and Homogenizing Surveys

12:40-14:00 | Lunch

14:00-14:40

[B. Sesar](#) | Pan-STARRS1 RR Lyrae Stars: Challenges and Opportunities

14:40-15:20 | Coffee

15:20-16:00

[B. Holl](#) | Variability analyses on Gaia's billion+ time series

16:00-16:40

[D. Maoz](#) | The frequency of snowline planets from a 2nd-generation microlensing survey

Wednesday | Dec 16

Mining

Jaglom Auditorium, Senate Building (location 1)

09:40-10:00 | Gathering

10:00-10:40

[B. Menard](#) | Thoughts on Big Data in astronomy

10:40-11:20

[T.W. Lan](#) | Combining spectroscopic and photometric samples to probe new astrophysical information

11:20-12:00 | Coffee

12:00-12:40

[J. Peek](#) | Kinetic Tomography

12:40-14:00 | Lunch

14:00-14:40

[A. Miller](#) | The Synthetic-Oversampling Method: Using Photometric Colors (and Light Curves?) to Discover Extremely Metal-poor Stars in Large Photometric Surveys

14:40-15:20 | Coffee

15:20-16:00

[D. Poznanski](#) | (Ab)using SDSS

19:00 | Dinner

2C restaurant, 132 Menachem Begin Road, Azrieli Center, 49 Floor

Thursday | Dec 17

Transients

Jaglom Auditorium, Senate Building (location 1)

09:40-10:00 | Gathering

10:00-10:40

[P. Nugent](#) | Maximizing Science from Transient Surveys

10:40-11:20

[L. Wyrzykowski](#) | Challenges in transient searches in OGLE and Gaia

11:20-12:00 | Coffee

12:00-12:40

[A. Gal-Yam](#) | Early supernova observations in the era of massive surveys

12:40-14:00 | Lunch

14:00-14:40

[I. Arcavi](#) | Marshaling - observing 5 vs. observing 500 vs. observing 5000 supernovae

14:40-15:20 | Coffee

15:20-16:00

[E. Ofek](#) | How to subtract images

16:00-16:20

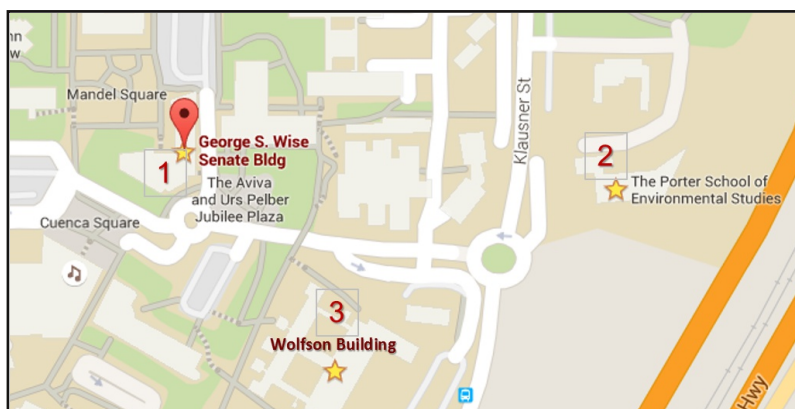
[B. Zackay](#) | On proper image coaddition - condensing all the information in many observation epochs to one image

16:20-16:40

[D. Goldstein](#) | Connecting Radiative Transfer Models to Supernova Data in the Era of LSST

16:40-17:00

[D. Baron](#) | Searching for transients in SDSS spectroscopic sub-exposures



Organizing Committee:

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