

Agenda for Hotwired-IV

Tuesday, May 12, 2015

Morning Session

09:25 - 09:30 Rachel Street Welcome and logistics

Time Domain Surveys

09:30 – 10:00

Eric Bellm

Chair: Rob Seaman

The Zwicky Transient Facility

10:00 – 10:20

Slavko Bogdanov

Transient Science with the Neutron Star Interior Composition ExploreR (NICER)

10:20 – 10:40

Neil Gehrels

Exploring on the Time Domain Universe with Swift

10:40 – 11:00

Francisco Förster

HiTS: The High cadence Transient Survey

Burón

11:00 – 11:30

Coffee Break

Chair: Eric Christensen

11:30 – 11:50

Kenneth Chambers

PSST - The Pan-STARRS Survey for Transients

11:50 – 12:10

Kyler Kuehn

Transient Science with the Dark Energy Survey

12:10 – 12:30

Benjamin Shappee

The All-Sky Automated Survey for Supernovae (ASAS-SN)

12:30 – 14:00

Lunch

Afternoon Session

14:00 – 14:20

Steve Howell

Chair: Diana Dragomir

Time Domain Astronomy with the NASA K2 Mission

14:20 – 14:40

Brad Tucker

KEGS - The Kepler Extra-Galactic Survey

14:40 – 15:00

Tony Tyson

LSST+

Target classification and selection

15:00 – 15:20

Brian Bue

Domain Adaptation for Optical Transient Detection

15:20 – 15:40

Ashish Mahabal

Adventures with CRTS orphancat objects

15:40 – 16:10

Coffee Break

Chair: Rob Siverd

16:10 – 16:40

Karl (Simon) Krughoff

LSST: The Alert Production Pipeline

16:40 – 17:00

Matthew Graham

Searching for supermassive black-hole binaries with CRTS

17:00 – 17:20

Umaa Rebbapragada

Machine-Learned Transient Vetting at iPTF: A Tale of Two Pipelines

17:20 – 17:40

George Miller

Pan-STARRS Photometric Classification of Supernovae using a Hierarchical Bayesian Model

17:40 – 18:00

Stephen Ridgway

Sipping from the firehose: why we need not fear the LSST alert tream

Evening Reception

18:30 – 22:00

Rooftop bar & pool, Canary Hotel

Wednesday, May 13, 2015

Morning Session

08:25 – 08:30 Rachel Street Logistics

Time Domain Science

08:30 – 09:00

José Luis Galache

Chair: Lucianne Walkowicz

Minor Planets Center

09:00 – 09:20

Eric Christensen

Simulating the Performance of Ground-Based NEO Surveys

09:20 – 09:40

Emily Kramer

Cometary Dust in NEOWISE

09:40 – 10:00

Richard Wainscoat

The Pan-STARRS search for Near Earth Objects

10:00 – 10:20

Diana Dragomir

The role of Time Domain in Exoplanet Science

10:20 – 10:40

Paula Szkody

Cataclysmic Variables : A Perfect Testbed for Brokering

Variability

10:40 – 11:10

Coffee break

Chair: Andy Howell

11:10 – 11:30

Abhijit Saha

A Synoptic Study of Stellar Populations towards the Galactic Center

11:30 – 11:50

Iair Arcavi

The Unreasonable Usefulness of Early Time Supernova Observations

11:50 – 12:10

Stefano Valenti

Exploring the unified class of Type II Supernovae with the Las Cumbres Observatory Global Telescope Network

12:10 – 12:30

Federica Bianco

Learning about stripped envelope SN explosions.

12:30 – 14:00

Lunch

Afternoon Session

Time Domain Science

14:00 – 14:20

Andy Howell

Chair: Iair Arcavi

The LCOGT Supernovae Key Project

14:20 – 14:40

Curtis McCully

Clues about the Identity of the Progenitors of Thermonuclear Supernovae from Early Time Observations

14:40 – 15:00

Yi Cao

Strong Ultraviolet Pulse From a Newborn Type Ia Supernova

15:00 – 15:20

Peter Brown

Swift Ultraviolet Supernova Observations - Past and Future

15:20 – 15:50

Coffee break

15:50 – 16:10

Alicia Soderberg

Supernova Forensics: Stellar Investigations from Birth to Death and Beyond

16:30 – 16:50

Patrick Kelly

The Discovery of the First Multiply Imaged Strongly Lensed Supernova

16:50 – 17:10

Jerod Parrent

Data Culture in the Supernova Community

Evening Sessions

Beginning 18:30 in Riviera Ballroom

VOEvent Hands-On Session

Discussion of inter-observatory communications

Chair: Griffin Hosseinzadeh

John Swinbank & Tim Staley

Roy Williams

Thursday, May 14, 2015

Morning Session

08:25 – 08:30 Rachel Street Logistics

Requirements for Time Domain Follow-up *Chair: Stefano Valenti*
08:30 – 09:00 *Leo Singer* ***The Needle in the 100-Square-Degree Haystack: Bootstrapping Advanced LIGO Follow-Up With Fermi and PTF***

09:00 – 09:20 Hsin-Yu Chen Facilitating follow-up of EM counterparts
09:20 – 09:40 Ori Fox Infrared Follow-up Observations of Supernovae in the Hot-Wired Era

09:40 – 10:00 Casey Law Real-Time Commensal Fast Transient Searches with the Very Large Array

10:00 – 10:20 Hadrien Devillepoix Transient astronomy with the Desert Fireball Network
10:20 – 10:40 Giacomo Vianello A time-scale-agnostic blind search for transients in X-ray and gamma-ray data

10:40 – 11:10 *Coffee Break*

Databases, data mining and data sharing *Chair: Curtis McCully*
11:10 – 11:40 *Tim Staley* ***How to build a TraP: An image-plane transient-discovery pipeline***

11:40 – 12:00 Dexter Jagula SkyWatch – Developing software solutions that make working with transient data easier

12:00 – 12:20 Simon Hodgkin Gaia Science Alerts: The First Year
12:20 – 12:40 Jeff Scargle Enhancements of Bayesian Blocks; Application to Large Light Curve Databases

12:40 – 14:00 *Lunch*

Afternoon Session

Chair: Nikolaus Volgenau
14:00 – 14:20 Peter Shawhan Prompt alerts for gravitational-wave event candidates
14:20 – 14:40 Roy Williams Understanding and Annotating LIGO-Virgo Probability Maps

14:40 – 15:00 Daniela Huppenkothen New Statistical Tools for Studying Variability in Transient Light Curves

15:00 – 15:20 Todd Boroson LCOGT – A Unique Time Domain Observatory

15:20 – 15:50 *Coffee break*

Coordinating Follow-up Efforts *Chair: Eric Saunders*
15:50 – 16:20 *Chris Lintott* ***Hotwiring the Crowd : Real-time Citizen Science***
16:20 – 16:40 Rachel Street The Spitzer Microlensing Program: A case study in crowdsourcing follow-up observations between humans and robots.

16:40 – 17:00 Gautham Narayan ANTARES: Hunting the Time-domain for the Rarest of the Rare

17:00 – 17:20 Iair Arcarvi The Supernova Exchange (SNEEx)

Conference Dinner

18:30 Bus departs from Canary Hotel

19:00 onwards Party at LCOGT Headquarters, starting with meeting group photo
Bus will shuttle attendees back to the Canary afterwards

Friday, May 15, 2015

Morning Session

08:25 – 08:30 Rachel Street Logistics

Time Domain Observing and Resources *Chair: Melissa Graham*

08:30 – 08:50	Scott Barthelmy	GCN/TAN: Status
08:50 – 09:10	Rob Siverd	The KELT Follow-up Network
09:10 - 09:30	Chris Davis	Time domain astronomy with the Liverpool Telescope and Liverpool Telescope 2
09:30 – 09:50	Guy Rixon	Publication arrangements for Gaia Photometric Science Alerts
09:50 – 10:10	Guillaume Belanger	Looking into the Crab's X-ray Pulse Profile
10:10 - 10:40	<i>Coffee break</i>	
<i>Chair: Rachel Street</i>		
10:40 – 11:00	Griffin Hosseinzadeh	FLOYDS: A robotic spectrograph for the Faulkes Telescopes
11:00 – 11:20	Jochen Greiner	Follow-up capabilities with the 7-channel GROND instrument
11:20 – 11:40	Eric Saunders	1 year of LCOGT v1.0: experience and lessons learned
11:40 – 12:00	Tim Staley	Automated scheduling for fun and profit: Application of Bayesian decision theory to transient follow-up
12:00 – 12:20	Stephen Potter	Transient Science at the South African Astronomical Observatory
12:20 – 12:40	Jonathan Swift	The Renovation of the Thacher Observatory