

New Windows on Transients across the Universe

Date 23 - 24 April 2012

Organised by Professor Paul O'Brien, Professor Steve Smartt, Professor Kenneth Pounds FRS, Professor Ralph Wijers

DAY 1				DAY 2			
SESSION 1 Chair Paul O'Brien		SESSION 2		SESSION 3		SESSION 4	
Chair Paul O'Brien		Chair Steve Smartt		Chair Kenneth Pounds FRS		Chair Ralph Wijers	
09.00	Welcome by Julie Maxton & lead organiser						
09.05	Neil Gehrels High Energy Transients	13.40	Brian Schmidt Crossing the Universe with Supernovae	09.00	Rob Fender Exploring the transient radio sky: new horizons with LOFAR	13.30	Isobel Hook Supernovae and Cosmology with future European facilities
09.30	Andrew MacFadyen The Dynamics and Afterglow Radiation of Gamma Ray Bursts	14.05	Jens Hjorth The Supernova/Gamma-Ray Burst Connection	09.25	Jim Hinton Very high energy emission from transients	13.55	John Tonry Monitoring the sky with Pan-STARRS
09.55	Contributed talks	14.30	Contributed talks	09.50	Contributed talks	14.20	Contributed talks
10.25	Discussion	14.55	Discussion	10.15	Discussion	14.45	Discussion
11.00	Coffee	15.20	Tea	10.45	Coffee	15.15	Tea
11.25	Stephan Rosswog The multi-messenger picture of compact object encounters	15.45	Avishay Gal-Yam Super-Luminous Supernovae	11.15	Sheila Rowan Gravitational wave astronomy	15.45	Josh Bloom Data-Mining and Machine Learning in the LSST Era
11.50	Tsvi Piran GRB progenitors	16.10	Lars Bildsten Diverse Energy Sources for Stellar Explosions	11.40	John Beacom Supernova Neutrino Astronomy	16.10	Ben Stappers The Square Kilometre Array and the transient Universe
12.15	Discussion	16.35	Discussion	12.05	Discussion	16.35	Discussion & Summary
12.40	LUNCH	17.00	CLOSE	12.30	LUNCH	17.00	CLOSE



THE ROYAL SOCIETY

DAY 1 SESSION 1 - Contributed Talks

Ross Church

Long gamma-ray bursts from interacting binaries

Gianpiero Tagliaferri

A complete sample of bright long GRBs discovered by Swift

Rachel Tunnicliffe

On the nature of the "hostless" short gamma-ray bursts

DAY 1 SESSION 2 - Contributed Talks

Norbert Schartel

XMM-Newton observations of transients

Jorick Vink

In pursuit of gamma-ray burst progenitors: the identification of a sub-population of rotating Wolf-Rayet stars

Marten van Kerkwijk

White dwarf binaries, mergers, and explosions

DAY 2 SESSION 1 - Contributed Talks

Eran Ofek

PTF shock breakout events

Andrew Levan

Luminous panchromatic transients from tidal disruption events

Simon Hodgkin

Transient Astronomy with the Gaia Satellite

DAY 2 SESSION 2 - Contributed Talks

Alicia Soderberg

Transients in the Era of EVLA and ALMA

Jess Broderick

The LOFAR Transients Key Science Project: image plane transients and multiwavelength follow-up

Peeyush Prasad and Stefan Wijnholds

AARTFAAC: Towards a 24x7, All-sky Radio Sky Monitor for LOFAR