

ZTF Spring Meeting | Paris May 2022

lundi 9 mai 2022 - vendredi 13 mai 2022

4 Place Jussieu, 75005 Paris



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Update on Neutrino Counterparts

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Update on Preparations for the upcoming O4 run

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(Cosmo) Who is Who doing What

2 to 3 minutes per person with 1 or 2 slides. Slides should be given in advance

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(Cosmo) DR2 Sample | What data do we have (and don't)

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(Cosmo) Selection function affecting fs8

Auteur correspondant carreres@cprm.in2p3.fr

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(SN) Intro

SWG Parallel sessions / 15

(SN) Flash ionisation features: early time CSM interaction

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(SN) SLSNI spectra analysis

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(SN) SN 2018ibb

Auteur: Steve Schulze^{None}

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(SN) Low mass end of CC SNe

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(SN x Cosmo) Low luminosity Iax SNe

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(Cosmo) The SNeIa Volume limited Sample

Auteur correspondant m.ginolin@ip2i.in2p3.fr

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(SN x Cosmo) Ia-CSM sample

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(Cosmo) AMPEL & Selection Function

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(SN) Superluminous SN 2020znr

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Strongly Lensed SNe Ia Search

Auteur correspondant ana.sagues-carracedo@fysik.su.se

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SNe Ia Progenitor & "Weirdos"

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Prospect for Cosmology (H_0 , w and f_s)

Auteur correspondant m.rigault@ipnl.in2p3.fr

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Update on TDE Results

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Update on AGN

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The Final Season Reimagined: 30 TDEs

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TDEs with the 3 GHz VLA Sky Survey

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The X-ray Bright TDE AT2021ehb

Auteur: Yuhan Yao¹

¹ *Caltech*

Auteur correspondant yyao@caltech.edu

The best SWG fit for this talk is:

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General Introduction

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Weizmann Precursors, Flash and New telescopes

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A radio-detected thermonuclear supernova interacting with helium rich circumstellar material

Auteur: Erik Kool¹

¹ *Stockholm University*

Auteur correspondant erik.kool@astro.su.se

The best SWG fit for this talk is:

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Luminous Red Nova and Intermediate Luminosity Red Transients

Auteur: Viraj Karambelkar^{None}

Cross WG activities / 37

Calibration Overview | from photons to Lightcurve

Auteur correspondant nicolas.regnault@lpnhe.in2p3.fr

Cross WG activities / 38

Flats (Starflats, Flats and Bias)

Auteur correspondant philippe.rosnet@clermont.in2p3.fr

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ZTF IN2P3 pipeline, where we are

Auteurs correspondants: racine@cppm.in2p3.fr, rosnet@in2p3.fr

- UberCal
- Flats
- Scene Modelling

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Scene Modelling

Auteur correspondant leander.lacroix@lpnhe.in2p3.fr

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pulsating white dwarf stars

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Galactic X-ray sources

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massive rapidly rotating white dwarfs

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(Cosmo) Discussion on fs8 efforts

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Discussion about the classification effort (With BTS/SN/ML)

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Discussion Force Photometry (With SN/BTS)

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(Cosmo) DR2 Sample | How to access the data (tuto)

Auteur correspondant m.rigault@ipnl.in2p3.fr

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(Cosmo) DR2 Sample | List of papers discussion

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(Cosmo) DR2 Sample | What is missing

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Overview Solar System

Auteur: Bryce Bolin¹

¹ *B612 Foundation*

Auteur correspondant bbolin@uw.edu

The best SWG fit for this talk is:

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Cometary outburst

Auteur: Michael Kelley¹

¹ *University of Maryland*

Auteur correspondant mkelley5@umd.edu

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Asteroid phase curve

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Earth Trojans

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BTS Overview

Auteur correspondant d.a.perley@ljmu.ac.uk

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Structured discussion | Lightcurve Photometry

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Structured discussion | Simulations (simsurvey++)

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Structured discussion | Broker (AMPEL, filter, Fritz)

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How the hardware misbehaves

Auteur: Roger Smith¹

¹ *California Institute of Technology*

Auteur correspondant rsmith@astro.caltech.edu

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Zubercal | fixing the PSF photometry

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General overview on ZTF

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Open Discussions

see https://docs.google.com/document/d/1LmUdcEBJ9x0_mNoHdRamLXJs1KNJE_EtGgrHXCIsMv0/edit#

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Rachel Bruch | Flash Spectroscopy

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Melissa Amenouche | ZTF survey simulation

Auteur correspondant melissa.amenouche@clermont.in2p3.fr

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Kaustav Das | Low mass end of CC SNe

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Kelian Sommer | SNe Ia 2nd bump

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Estelle Robert | Estimation of fs8 from SNe Ia

Auteur correspondant robert@ipnl.in2p3.fr

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Ana Sagués Carracedo | Search of Strongly lensed SNe Ia

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Yashvi Sharma | Ia-CSM

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Alice Townsend | Search for lensed SNe with Ampel

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Chester Li | search for periodic white dwarfs

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Madeleine Ginolin | Volume Limited Ia Sample

Auteur correspondant m.ginolin@ip2i.in2p3.fr

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Bastien Carreres | Bias affecting the derivation of fs8

Auteur correspondant carreres@cppm.in2p3.fr

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Guy Augarde | SALT++ SNe Ia Lightcurve fitter

Auteur correspondant gaugarde@lpnhe.in2p3.fr

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Erez Zimmerman | To Be Given

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(ML) Modelling AGN variability

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(ML) Automated classification of SEDM spectra using deep learning

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(ML) SNGuess: a method for the selection of young extragalactic transients (remote)

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(ML) Real-time SN Ia light curve augmentation to maximize SALT2 constraints (remote)

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(ML) SCoPe

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(ML) ZTF Solar System object detection and follow up (remote)

Auteur: Bryce Bolin¹

¹ *B612 Foundation*

Auteur correspondant bbolin@uw.edu

The best SWG fit for this talk is:

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(ML) Combining Data Science and STEM with Mobile App ZARTH (remote)

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Bumps in the ZTF Ia sample

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Spectral modelling of SNe Ia and exotic transients

Auteur correspondant luharvey@tcd.ie

ZTF PhDs / 97

Signatures of interaction in SNe Ia

Auteur: Jacco Terwel^{None}

General overview / 98

News from IPAC

Auteur: Ben Rusholme^{None}

Auteur correspondant rusholme@ipac.caltech.edu