

LSST@Europe 8

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Budapest, Hungary

PROGRAMME



LSST
Discovery
Alliance


NATIONAL RESEARCH, DEVELOPMENT
AND INNOVATION OFFICE
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held in Budapest Hungary

Edited by
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Cover: Night Sky at the Rubin Observatory, Chile

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Monday

8:00 – 9:00		Registration (Entrance Hall)
		Opening ceremony (Magnolia Conference Hall)
9:00 – 9:10	<i>Róbert Szabó</i>	Opening Remarks
9:10 – 9:20	<i>Mihály Pósfai</i>	Opening Remarks
9:20 – 9:30	<i>Charles Simonyi</i>	Opening Remarks
		Plenary Session – LSST Project (Magnolia Conference Hall)
9:30 – 9:50	<i>Bob Blum</i>	Rubin Observatory Status Update
9:50 – 10:10	<i>Željko Ivezić</i>	Rubin Observatory and LSST: early science
10:10 – 10:30	<i>Lynne Jones</i>	Current LSST Survey Strategy
10:30 – 11:00		Coffee Break
		Plenary Session – LSST Project (Magnolia Conference Hall)
11:00 – 11:20	<i>Colin Slater</i>	Data Preview 2 Processing and Products
11:20 – 11:40	<i>Neven Caplar</i>	Scaling Rubin: Data Preview 2, prompt products, and MultiModal Science
11:40 – 12:00	<i>Federica Bianco</i>	LSST survey strategy: how we started, how it may change
12:00 – 12:15	<i>Marina S. Pavlovic</i>	Entering the LSST Era from the Summit: Early Operations at Vera C. Rubin Observatory
12:15 – 12:30	<i>Martín Rodríguez Monroy</i>	Correcting atmospheric effects on LSST's photometry with AuxTel's spectroscopy
12:30 – 13:30		Lunch break

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Plenary Session – DESC (Magnolia Conference Hall)		
13:30 – 13:45	<i>Nora Elisa Chisari</i>	LSST Dark Energy Science Collaboration: preparation for cosmological studies with Rubin data
13:45 – 14:00	<i>Martín Rodríguez Monroy</i>	From DES to DESC: new methods for correcting observational systematics in LSST
14:00 – 14:15	<i>Anik Halder</i>	Physical properties and redshift distributions of KiDS-1000 galaxies with pop-cosmos
14:15 – 14:30		Discussion
14:30 – 15:00		First time LSST conference goers - introduce yourselves
15:00 – 15:30		Coffee break
Hands-on Session (Magnolia Conference Hall)		
15:30 – 17:00	<i>Alex Razim</i>	Searching for stellar and extragalactic variability in LSST DP2 data

Tuesday

8:00 – 9:00		Registration (Entrance Hall)
Plenary Session – TVS & SMWLTV (Magnolia Conference Hall)		
9:00 – 9:20	<i>Laurent Eyer</i>	Variable Stars from Space and Ground: The Gaia–LSST Synergy
9:20 – 9:40	<i>Anupam Bhardwaj</i>	Pulsating stars as precision distance indicators in the Rubin LSST era
9:40 – 10:00	<i>Clécio R. Bom</i>	An AI for Time-Domain Discovery in the LSST Era
10:00 – 10:20	<i>Vasily Belokurov</i>	Mapping dark matter with stellar streams in the Rubin era
10:20 – 12:30		Discussion
10:30 – 11:00		Poster session (coffee break)
Splinter Session – Strong Lensing (Jázmin Conference Hall)		
11:00 – 11:15	<i>Alice Townsend</i>	Discovering strongly lensed supernovae: from ZTF to LSST
11:15 – 11:30	<i>Anindya Ganguly</i>	Detectability of Gravitationally Lensed Kilonovae in the Rubin LSST
11:30 – 11:45	<i>C. R. Bom</i>	The Rubin Static Strong Lensing Data Challenge: Towards Automated Discovery and Modelling at LSST Scale
11:45 – 12:00	<i>Alessio Taranto</i>	From instrumental systematics to strong lensing science: assessing the impact of stray light and PSF variations in Rubin LSSTs
12:00 – 12:30		Discussion
Splinter Session – TVS 1 (Magnolia Conference Hall)		
11:00 – 11:15	<i>Marcella Marconi</i>	A new self-consistent Pop II theoretical distance scale in the Rubin-LSST era
11:15 – 11:30	<i>Ilaria Musella</i>	Tools for the simulation of Pulsating Stars (ITA_INA_S8 Inkind)

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Splinter Session – TVS 1 (Magnolia Conference Hall) continued

11:30 – 11:45	<i>Sayali Kulkarni</i>	RR Lyrae Light Curve Characterization in the LSST Era: Template-Based Period Refinement and Cross-Survey Calibration
11:45 – 12:00	<i>Gábor Kovács</i>	A new pipeline for fast and robust period determination in the LSST era
12:00 – 12:15	<i>Gábor Marton</i>	Data-driven characterisation of YSO light curves with multimodal representation learning
12:15 – 12:30		Discussion
12:30 – 13:30		Lunch break

Splinter Session – Galaxies (Jázmin Conference Hall)

13:30 – 13:45	<i>Mireia Montes</i>	A promising way to infer cluster masses using only ultra-deep imaging
13:45 – 14:00	<i>Agnieszka Pollo</i>	Low surface brightness galaxies in the large-scale structure
14:00 – 14:15	<i>Tom Sedgwick</i>	Optimising detection and deblending for low surface brightness science and beyond
14:15 – 14:30	<i>Minh Ngoc Le</i>	A new class of extreme galaxies found in the Virgo Cluster using Rubin First Look images
14:30 – 14:45	<i>Madalina Tudorache</i>	pop-cosmos: Scaleable SED fitting for LSST with a generative galaxy population model prior
14:45 – 15:00	<i>Ilin Lazar</i>	The relationship between morphology, density and location in the cosmic web from massive to dwarf galaxies
15:00 – 15:30		Discussion

Splinter Session – TVS 2 (Magnólia Conference Hall)

13:30 – 13:45	<i>Ismael Perez-Fournon</i>	Rubin extragalactic transients: a first look at the first months of public alerts
13:45 – 14:00	<i>József Vinkó</i>	Transients in the Virgo Cluster
14:00 – 14:15	<i>Francesco Gabrielli</i>	New prospects for the observation of pair-instability supernovae
14:15 – 14:30	<i>Jannis Necker</i>	Candidate Nuclear Transients in Rubin Alerts
14:30 – 14:45	<i>Domonkos Szabó</i>	Refined Description of Slim Disks around Tidal Disruption Events
14:45 – 15:00	<i>Zsófia Kovács-Stermeczky</i>	Modeling the Light Curve of Tidal Disruption Events with TiDE
15:00 – 15:15	<i>Shar Daniels</i>	Continuous-Readout Imaging Can Explore the Sub-Second Optical Transient Sky
15:15 – 15:30	<i>Vysakh Anilkumar</i>	Gaussian Process Framework with an Analytical Mean Function for Multiband Transient Light Curves
15:30 – 16:00		Coffee break

Splinter Session – Active Galactic Nuclei (Jázmin Conference Hall)

16:00 – 16:15	<i>W. Niel Brandt</i>	The LSST AGN Science Collaboration: European Opportunities in the Rubin Data Era
16:15 – 16:30	<i>Shenli Tang</i>	Revealing AGN host galaxy properties in the LSST DDFs
16:30 – 16:45	<i>Akke Viitanen</i>	Closing the loop: AGILE DR1 comparison to LSST DP1

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16:45 – 17:00	<i>Natale de Bonis</i>	Multi-Head ALNP: An Attentive Latent Neural Process for AGN light curve reconstruction and parameters inference
17:00 – 17:15	<i>Sugata Kaviraj</i>	Variability-selected AGN in dwarf galaxies: the incidence of AGN in dwarf and massive galaxies is similar
17:15 – 17:30		Discussion
Splinter Session – SMWL V (Jázmin Conference Hall)		
16:00 – 16:15	<i>Massimo Dall'Ora</i>	Bridging the Gap to Rubin-LSST: multi-band ugrizY characterization of high-fidelity variable stars in the Galactic bulge
16:15 – 16:30	<i>Giada Pastorelli</i>	SPICE4LSST: Incompleteness and Crowding Errors for LSST data releases
16:30 – 16:45	<i>Lovro Palaversa</i>	Photo-D with the LSST: First Stellar Photometric Distances, Faint Blue Star Deficits in DP1 and Future Photo-D Stellar Distance Catalogs
16:45 – 17:00	<i>Marc Monier</i>	A Scientific exploration only possible with Rubin-LSST: Search for hidden baryons through interstellar scintillation
17:00 – 17:15	<i>Gustavo Medina</i>	Predicting the metallicity of RR Lyrae stars in LSST based on their pulsational properties and machine learning
17:15 – 17:30		Discussion
Public Talk (Magnólia Conference Hall)		
18:00 – 19:30	<i>Željko Ivezić</i>	Rubin's Legacy Survey of Space and Time: The greatest movie of all time!
19:30 – 21:00	<i>László Kiss</i>	Távcsöves bemutató nyári - őszi látványosságok az égen

Wednesday

8:00 – 9:00		Registration (Entrance Hall)
Plenary Session – SSSC & GX & AGN (Magnolia Conference Hall)		
9:00 – 9:20	<i>Mario Jurić</i>	
9:20 – 9:40	<i>Sugata Kaviraj</i>	The Rubin-LSST Galaxies Science Collaboration: activities and highlights
9:40 – 10:00	<i>Aaron Watkins</i>	LSST as a low surface brightness discovery survey
10:00 – 10:20	<i>Andjelka B. Kovačević</i>	Advancing Rubin-Era AGN Science through European In-Kind Contributions
10:20 – 12:30		Discussion
10:30 – 11:00		Coffee break
Splinter Session – Galaxies & AGN (Magnolia Conference Hall)		
11:00 – 11:20	<i>Ilin Lazar</i>	The Extragalactic ML Toolkit: Overcoming the LSST's Data Deluge with Community-Driven Algorithms
11:20 – 11:35	<i>Anirban Dutta</i>	Quantifying detection and morphological biases for Low Surface Brightness Galaxies (LSBGs) in the LSST era
11:35 – 11:50	<i>Vavilova Iryna</i>	Milky Way Near Twins: Evolutionary diagnostics for search and NGC 3521 as the example
11:50 – 12:05	<i>Matthew Temple</i>	Differential Chromatic Refraction with LSST
12:05 – 12:20	<i>Julie Beck</i>	A multi-wavelength approach to high-redshift quasar detection and identification
12:20 – 12:30		Discussion

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Splinter Session – SSSC & ISSC (Jázmin Conference Hall)		
11:00 – 11:15	<i>Nóra Takács</i>	Preparing for the LSST: Small Hildas and Trojans as Tracers of Early Solar System Mixing
11:15 – 11:30	<i>Karlo Mrakovčić</i>	Improving the Detection of Faint, Fast-Moving Asteroids with Machine Learning
11:30 – 11:45	<i>László Szigeti</i>	A Forced-Photometry Service for Faint Solar System Objects on the Rubin Science
11:45 – 12:00	<i>Tom J. Wilson</i>	Not just a catalogue combination method, or How to use probabilistic macauff cross-matches to remove junk objects from your data sample, clean your objects' measurements, find interesting new objects, and more!
12:00 – 12:30		Discussion
12:30 – 13:30		Lunch break
Excursion		
15:00 – 16:30		Visit to the Konkoly Obs / Svábhegyi public observatory

Thursday

8:00 – 9:00		Registration (Entrance Hall)
Plenary Session – Synergies & AGN & TVS (Magnolia Conference Hall)		
9:00 – 9:20	<i>Paula Sánchez Sáez</i>	Searching for AGN populations in alert streams with Machine Learning : Lessons from ZTF for the LSST era
9:20 – 9:40	<i>Chris Frohmaier</i>	LSST synergies with the ESO 4m Multi-Object Spectroscopic Telescope
9:40 – 9:55	<i>Roy Williams</i>	The Lasair Broker for Rubin Alerts
9:55 – 10:10	<i>Emille Ishida</i>	The Fink broker, personalized filtering for the Rubin alert stream
10:10 – 10:30	<i>Sara Bonito</i>	Transients and Variable Stars Science Collaboration: a very diverse range of scientific topics when the Vera C. Rubin Observatory Legacy Survey of Space and Time will start
10:30 – 11:00		Poster session(coffee break)
Plenary Session – Brokers & Data Centers (Magnolia Conference Hall)		
11:00 – 11:15	<i>George Beckett</i>	Introducing the LSST:UK Independent Data Access Centre
11:15 – 11:30	<i>Jorge Carretero</i>	Progress on the LSST lite-IDAC@PIC
11:30 – 11:45	<i>Agnieszka Pollo</i>	IDAC-PL: the Polish LSST Independent Data Analysis Center – status, architecture, and early science cases

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11:45 – 12:00	<i>Sylvie Dagoret-Campagne</i>	Origin of Dipole Features in Rubin Alerts: A Residual effect from differential atmospheric Refraction
12:00 – 12:15	<i>Tomislav Jurkic</i>	Supercomputer ‘Bura’ as a dedicated software processing centre for Rubin-related science
12:15 – 12:30		Discussion
12:30 – 13:30		Lunch break
Plenary Session – Synergies & Follow-up (Magnolia Conference Hall)		
13:30 – 13:45	<i>Vincenzo Petrecca</i>	A VST survey to support the Rubin Observatory
13:45 – 14:00	<i>Lukasz Wyrzykowski</i>	BHTOM - global telescope network for time-domain follow up
14:00 – 14:15	<i>Andrés I. Ponte Pérez</i>	Spending Spectra Wisely: Adaptive Cadence Optimisation for Gravitationally Lensed Supernovae in the Rubin Era
14:15 – 14:30	<i>Elham Saremi</i>	From Commissioning to Survey: The LSST–VISTA Fusion Pipeline
14:30 – 14:45	<i>Shruti Ramaiya</i>	Applications of 1.4 GHz diagnostics in Type Ia Supernova cosmology in the LSST era
14:45 – 15:00	<i>Hugh Roxburgh</i>	The Future of FRB Cosmology with LSST
15:00 – 15:15	<i>Unnikrishnan Sureshkumar</i>	Synergistic Science with Rubin and MeerKAT
15:15 – 15:30	<i>Dragana Ilić</i>	Follow-up campaign of the quasar with strong coherent variability discovered in LSST DP1
15:30 – 16:00		Coffee break
Hands-on Session (Magnolia Conference Hall)		
13:30 – 17:00	<i>Julien Peloton</i>	Exploring the Solar System using Rubin alert data from the Fink broker
18:30 – 21:30		Conference dinner with river cruise - optional (75 Euro / person)

Friday

8:00 – 9:00		Registration (Entrance Hall)
Plenary Session – Synergies & Brokers (Magnolia Conference Hall)		
9:00 – 9:20	<i>Ian Sullivan</i>	LSST Alert Production: now live!
9:20 – 9:40	<i>Natasha Abrams</i>	Roman and Rubin Microlensing Synergize to Characterize Black Holes and Binary Stars
9:40 – 10:00	<i>Christa Gall</i>	One Sky, Two Surveys. Why Rubin and Euclid Need Each Other
10:00 – 10:20	<i>Monika Soraisam</i>	From time-domain alerts to discoveries: Turning the Rubin alert stream into science with GOATS
10:20 – 10:30		Discussion
10:30 – 11:00		Coffee Break
Plenary Session – LSST Project (Magnolia Conference Hall)		
11:00 – 11:15	<i>Tesla Jeltema</i>	LSST Discovery Alliance activities
11:15 – 11:30	<i>Tesla Jeltema</i>	Science Collaborations summary
11:30 – 11:45	<i>Federica Bianco</i>	Broadening participation
11:45 – 12:00	<i>Clare Higgs</i>	Education & Public Outreach with Rubin Observatory: Sharing Rubin with the World
Closing ceremony (Magnolia Conference Hall)		
12:00 – 12:30	<i>Róbert Szabó</i>	Closing ceremony
12:30 – 13:30		Lunch break

