Swiss SKA Days 2024

Monday, 2 September 2024 - Wednesday, 4 September 2024

Campus Biotech Geneva

Book of Abstracts

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High-Time Resolution GPU Imager for FRB searches at low radio frequencies

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CANCELLED - Towards more accurate predictions of the 21cm signal at cosmic dawn

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Dark and Quiet Skies at UNCOPUOS –An Update on the Sustainable Use of Outer Space

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Galactic science with SKAO: the Our Galaxy and Cradle of Life SWGs

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EMBER-2: towards implicit emulators for constraining astrophysics in FIRE-based simulations

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Monday Afternoon / 16

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State-of-The-Art Time & Frequency References for SKA-Low & SKA-Mid

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AstroORDAS project for support of Open Research Data Analysis Services in Astronomy

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Development of an industrial two-photon Rb atomic clock for radioastronomy applications

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Tuesday afternoon / 27

The time for protecting radio astronomy is now! An update on the work of the Committee on Radio Astronomy Frequencies (CRAF).

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Galactic Alchemy: Crafting Galaxy Models with Generative Deep Learning for Map-to-Map Translation between Cosmological Simulations and Observations

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Monday Afternoon / **29**

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Wednesday Morning / **30**

Star-forming galaxies in the high-z Universe may show unsual radio properties

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Accelerating radiative transfer simulations with reinforcement learning

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Co-design for the AA2 SDP processing challenge

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Energy-Efficient FPGA Solutions for Large-Scale FFTs and Non-Uniform FFTs: A Software-Hardware Co-Design Approach for Radio Interferometry

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Tuesday morning / 35

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Wednesday Morning / **37**

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HIRAX: Overview, Primary Beam Systematics and Instrument Simulation

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Wednesday Morning / **39**

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Real-Time Visualization of Astrophysical Data

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Image-to-Image Translation with Content-Style Disentanglement for Radio Astronomy

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Separating Point Source Contaminants at the Visibility Level

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Monday Morning / **43**

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Monday Morning / **44**

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Monday Afternoon / **45**

Improving MWA's near-realtime calibration pipeline

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Simulations & AI for fundamental physics

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Tuesday afternoon / **47**

Radio galaxy image generation with the scattering transform

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Tuesday afternoon / **48**

EPFL coordinates research and community interests in Switzerland for the protection of dark and quiet skies

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Wednesday Morning / 51

1283 MHz Deep radio catalog of the core of Saraswati Supercluster

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Tuesday afternoon / 52

Trajectory Based RFI Subtraction and Calibration

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The IAU CPS: Satellite constellation impacts, observation campaigns, and software tools

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SKA Data Science Challenge - Update

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Monday Afternoon / 58

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Welcome

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