

Swiss SKA Days 2024

Wednesday, 4 September 2024

Wednesday Morning: Opening Session (Day 3) - Auditorium H8-01 (09:00 - 09:05)

-Conveners: Daniel Schaerer

Wednesday Morning: Astro Science (Part 1) - H8-01-D (09:05 - 10:20)

-Conveners: Miroslava Dessauges

time	[id] title	presenter
09:05	[14] Galactic science with SKAO: the Our Galaxy and Cradle of Life SWGs	AUDARD, Marc
09:30	[30] Star-forming galaxies in the high-z Universe may show unusual radio properties	Dr BAIT, Omkar
09:55	[18] Non-Gaussian simulation of post-reionization cosmological neutral hydrogen based on a halo model approach	HITZ, Pascal

Wednesday Morning: HPC & Eco-Computing - Auditorium H8-01 (09:05 - 10:25)

-Conveners: Victor Holanda

time	[id] title	presenter
09:05	[7] Computing Platforms and Infrastructure - Program Update	HOLANDA, Victor
09:25	[34] Energy-Efficient FPGA Solutions for Large-Scale FFTs and Non-Uniform FFTs: A Software-Hardware Co-Design Approach for Radio Interferometry	Mr RODRÍGUEZ ÁLVAREZ, Rubén
09:45	[36] Sustainability of Extreme-Scale Simulations with SPH-EXA	Dr SIMSEK, Osman Seckin
10:05	[23] Scaling Sustainable Computing: Advanced ML Techniques for Enhancing the Efficiency in the SKA Regional Data Centers	Dr CONSTANTINESCU, Denisa-Andreea

Wednesday Morning: Astro Science (Part 2) - H8-01-D (10:55 - 12:35)

-Conveners: Daniel Schaerer

time	[id] title	presenter
10:55	[3] Probing the Λ CDM Universe and beyond with present and future 21cm Intensity Mapping surveys	BERTI, Maria
11:20	[13] A novel observable expected in gravitationally-lensed fast radio bursts	SAHA, Prasenjit
11:45	[10] CANCELLED - Towards more accurate predictions of the 21cm signal at cosmic dawn	SCHNEIDER, Aurel
12:10	[51] 1283 MHz Deep radio catalog of the core of Saraswati Supercluster	KINCAID, Robert

Wednesday Morning: Data Science & Simulations - Auditorium H8-01 (10:55 - 12:35)

-Conveners: Darren Reed

time	[id] title	presenter
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10:55	[37] Simulation based inference with radiative hydrodynamics simulations of the 21cm signal from the Epoch of Reionization	SEMELIN, Benoit
11:15	[28] Galactic Alchemy: Crafting Galaxy Models with Generative Deep Learning for Map-to-Map Translation between Cosmological Simulations and Observations	Dr DENZEL, Philipp
11:35	[15] EMBER-2: towards implicit emulators for constraining astrophysics in FIRE-based simulations	BERNARDINI, Mauro
11:55	[31] Accelerating radiative transfer simulations with reinforcement learning	PANOS, Brandon
12:15	[1] The future of cosmological likelihood-based inference: accelerated high-dimensional parameter estimation and model comparison	PIRAS, Davide

Wednesday Morning: SKA Data Science Challenge - Auditorium H8-01 (12:35 - 13:15)

time	[id] title	presenter
12:35	[56] SKA Data Science Challenge - Update	PIRAS, Davide
12:55	[39] YOLO-CIANNA: Galaxy detection with deep learning in radio data, application to the SKAO SDCs	CORNU, David