

TYCHO SCIENCE DAY

January 28, 2026

08.15 – 09.00	In front of Margrethe Bohr Auditorium: Breakfast	
SCIENCE	Margrethe Bohr Auditorium	
09.00 – 09.20	Troels Haugbølle: <i>Tycho Science Day</i>	
09.20 – 09.40	Fabian Schuhmann: <i>Protein and Membrane Modelling across three scales</i>	
09.40 – 10.00	Christopher Tiede: <i>Simulating Disks Around Astrophysical Binaries</i>	
10.00 – 10.20	Sarah Pearson: <i>Stellar Streams with Jax</i>	
10.20 – 10.50	In front of Margrethe Bohr Auditorium: Break & refreshments	
10.50 – 11.10	Zuyi Chen: <i>The First Billion Years of Cosmic History: Galaxies, Reionization, and Tycho</i>	
11.10 – 11.30	Juno Chan: <i>Discovering New Physics in Gravitational Waves Astronomy with Deep Learning</i>	
11.30 – 11.55	Pablo Martínez Miravé & Shunke Ai: <i>Particle Astrophysics with Tycho from Stellar Evolution to Shock Physics</i>	
11.55 – 12.20	Ayumu Kuwahara, Sebastian Lorek & Ziyang Xu: <i>Simulating protoplanetary discs and planet formation with Tycho</i>	
12.20 – 13.00	Lunch break	
HANDS-ON	NBB 1.01.B.080	NBB 1.01.B.082
13.00 – 14.30	Troels Haugbølle: <i>Profiling and benchmarking: best practice for optimal usage of Tycho</i>	Juno Chan: <i>Task farming and large-scale data analysis with SLURM</i>
14.30 – 15.00	In front of Margrethe Bohr Auditorium: Break & refreshments	
15.00 – 16.30	Troels Haugbølle: <i>Introduction to MPI and distributed memory parallization</i>	Ka Lok Lo (Rico): <i>Easy GPU computing with Jax and Cupy</i>
16.30 – 18.00	NBB building 2, 2. floor, G-tower, interior common space: Reception	



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