

MICRA2023: microphysics in computational relativistic astrophysics

Monday, 11 September 2023

Core-Collapse Supernovae: CCSN I - Aula Grande (09:00 - 10:10)

-Conveners: Evan O'Connor

time	[id] title	presenter
09:00	[2] Core-Collapse Supernovae: Current Status, Open Questions, and Multi-messenger Prospects	ANDRESEN, Haakon
09:35	[4] Neutrino kinetics in core-collapse supernova	NAGAKURA, Hiroki

Core-Collapse Supernovae: CCSN II - Aula Grande (10:40 - 12:00)

-Conveners: Evan O'Connor

time	[id] title	presenter
10:40	[45] A quantitative criterion to predict the explodability of core-collapse supernovae: the role of the Si/O interface	BOCCIOLI, Luca
11:00	[14] Long term simulation of supernovae for multi-messenger astronomy	MORI, Masamitsu
11:20	[13] CCSN simulations with reduced nucleosynthesis networks	NAVO, Gerard
11:40	[3] Predicting Which Massive Stars Explode	GOGILASHVILI, Mariam

Core-Collapse Supernovae: CCSN III - Aula Grande (14:00 - 15:30)

-Conveners: Evan O'Connor

time	[id] title	presenter
14:00	[46] A Parametric Study of the SASI Comparing General Relativistic and Non-Relativistic Treatments	DUNHAM, Samuel
14:10	[12] Relativistic Capabilities of Core-collapse Supernova Simulations in SpECTRE and Flash	PAJKOS, Michael
14:30	[27] The stellar progenitors of long-duration gamma-ray bursts.	HALEVI, Goni
14:50	[17] Long term simulations of jet-driven core-collapse supernovae on GPUs	SHANKAR, Swapnil
15:00	[15] Explosive Failed Supernovae	EGGENBERGER ANDERSEN, Oliver
15:10	[28] Dynamics of collapsar disk outflow	DEAN, Coleman

Core-Collapse Supernovae: CCSN Discussion - Aula Grande (16:00 - 18:00)

-Conveners: Bronson Messer