

Celebrating 75 Years of the Nuclear Shell Model and Maria Goeppert-Mayer

Friday, July 19, 2024

Invited Talks - Auditorium (1:00 PM - 2:40 PM)

-Conveners: Donald Geesaman

time	[id] title	presenter
1:00 PM	[5] Quest for a comprehensive shell model to track the evolution in nuclear structure	LUBNA, Rebeka
1:25 PM	[6] Overview of the History of the Nuclear Shell Model and Personal Perspectives on its Future	DRAAYER, Jerry
1:50 PM	[4] Microscopic effective interactions for the nuclear shell model	SMIRNOVA, Nadya
2:15 PM	[7] The Nilsson Model and Medium-Mass Nuclei	CRAWFORD, Heather

Invited Talks - Auditorium (3:00 PM - 4:15 PM)

-Conveners: Robert Wiringa

time	[id] title	presenter
3:00 PM	[8] Towards a microscopic understanding of the shell model: status and open questions	STROBERG, Ragnar
3:25 PM	[9] Applications of the ab initio no-core shell model	NAVRATIL, Petr
3:50 PM	[10] Large-scale shell-model calculations, quasi-particle shell model, and their applications	SHIMIZU, Noritaka

Invited Talks - Auditorium (4:25 PM - 5:40 PM)

-Conveners: Patrick Fasano

time	[id] title	presenter
4:25 PM	[11] Structure and reaction observables of drip-line nuclei with the Gamow Shell Model	MICHEL, Nicolas
4:50 PM	[31] Shell Model for double beta decay	HOROI, Mihai
5:15 PM	[12] Pushing the limits of the shell model towards the continuum	KRAVVARIS, Kostas

Saturday, July 20, 2024

Invited Talks - Auditorium (9:00 AM - 10:40 AM)

-Conveners: Takaharu Otsuka

time	[id] title	presenter
9:00 AM	[14] Celebrating Maria Goeppert twice: shell model and double beta decay	MENENDEZ, Javier
9:25 AM	[15] The shell structure of the neutron-rich Ca isotopes	DOORNENBAL, Pieter
9:50 AM	[16] Deconstructing the g_A puzzle within the realistic shell model	CORAGGIO, Luigi
10:15 AM	[17] Ab initio studies on muon capture to probe neutrinoless double-beta decay	JOKINIEMI, Lotta

Invited Talks - Auditorium (11:00 AM - 12:15 PM)

-Conveners: Matthew Mumpower

time	[id] title	presenter
11:00 AM	[18] Shell model meets in-beam gamma-ray spectroscopy on both sides of the nuclear chart	GADE, Alexandra
11:25 AM	[19] Nuclear Data in the Cosmos from the Interacting Shell Model	KARAMPAGIA, Sofia
11:50 AM	[20] Frontiers in explosive nuclear astrophysics	LOTAY, Gavin

Sunday, July 21, 2024

Invited Talks - Auditorium (9:30 AM - 10:45 AM)

-Conveners: Christopher Fasano

time	[id] title	presenter
9:30 AM	[25] Spin-Orbit Splittings in the Presence of Weak Binding	KAY, Benjamin
9:55 AM	[26] Isospin Symmetric Island of Inversion at the N=Z line	NOWACKI, Frederic
10:20 AM	[27] Some aspects of the quenching of single-particle strength	MACCHIAVELLI, Augusto

Invited Talks - Auditorium (11:00 AM - 12:15 PM)

-Conveners: Garrett King

time	[id] title	presenter
11:00 AM	[28] Ab Initio Investigation of Radiative Capture and Electron-Positron Pair Production	GYSBERS, Peter
11:25 AM	[29] Beta decay recoil-order terms for studies of physics beyond the Standard Model	SARGSYAN, Grigor
11:50 AM	[30] Ab initio theory towards reliable neutrinoless double beta decay nuclear matrix element	BELLEY, Antoine

Invited Talks - Auditorium (1:15 PM - 2:30 PM)

-Conveners: Mark Caprio

time	[id] title	presenter
1:15 PM	[33] Quantum Computing and the Shell Model	ENGEL, Jon
1:40 PM	[34] Neural network quantum states for the nuclear many-body problem	LOVATO, Alessandro
2:05 PM	[35] A weak entanglement approximation for nuclear structure: proton-neutron approximate shell model	GORTON, Oliver

Invited Talks - Auditorium (2:45 PM - 4:00 PM)

-Conveners: Nirupama Sensharma

time	[id] title	presenter
2:45 PM	[32] Elucidating the Ge nuclei with the shell model	PETERS, Erin
3:10 PM	[39] Level Densities and Gamma-Ray Strength Functions in Heavy Nuclei with Shell-Model Monte Carlo	DEMARTINI, Dallas
3:35 PM	[36] Nuclear shapes studied by Monte Carlo shell model calculations	TSUNODA, Yusuke