

PAINT2024 - Workshop on Progress in Ab Initio Nuclear Theory

Tuesday, 27 February 2024

Morning: Talks (09:00 - 10:30)

-Conveners: Petr Navratil

time	[id] title	presenter
09:00	[50] Welcome	SMITH, Nigel
09:15	[1] Introduction	NAVRATIL, Petr
09:30	[2] Precision theory for charge radii of light nuclei	EPELBAUM, Evgeny
10:00	[3] Three-Nucleon Forces with Symmetry Preserving Regulator	KREBS, Herman

Morning: Talks (11:00 - 12:30)

-Conveners: Petr Navratil

time	[id] title	presenter
11:00	[14] Neutron-rich nuclei and neutron skins from chiral low-resolution interactions	ARTHUIS, Pierre
11:30	[6] Charged particles and resonances in finite volume	KOENIG, Sebastian
12:00	[4] New Algorithms for the Nuclear Many-Body Problem	LEE, Dean

Wednesday, 28 February 2024

Morning: Talks (09:00 - 10:30)

-Conveners: Jason Holt

time	[id] title	presenter
09:00	[17] Improved medium-mass nuclear structure and responses with the IMSRG	HEINZ, Matthias
09:30	[18] Factorized approximations of IMSRG(3)	STROBERG, Ragnar
10:00	[20] New Extensions and Applications of the IMSRG	HERGERT, Heiko

Morning: Talks (11:00 - 12:30)

-Conveners: Jason Holt

time	[id] title	presenter
11:00	[22] Reach and opportunities for Green's function methods in nuclear physics: optical potentials, infinite matter and diagrammatic Monte Carlo	BARBIERI, Carlo
11:30	[51] The polarization propagator in the self-consistent Gorkov-Green's function method: perturbation theory	STELLIN, Gianluca
12:00	[16] Nuclei and nuclear matter with neural-network quantum states	LOVATO, Alessandro

Thursday, 29 February 2024

Morning: Talks (09:00 - 10:30)

-Conveners: Thomas Papenbrock

time	[id] title	presenter
09:00	[27] Precision Calculations of p-Shell Hypernuclei and Beyond	KNÖLL, Marco
09:30	[28] Evolution of single-particle structure in neutron-rich beryllium isotopes	FASANO, Patrick
10:00	[29] Ab initio theory towards reliable neutrinoless double beta decay nuclear matrix elements	BELLEY, Antoine

Morning: Talks (11:00 - 12:30)

-Conveners: Thomas Papenbrock

time	[id] title	presenter
11:00	[31] New opportunities for nuclear structure calculations for BSM physics	GLICK-MAGID, Ayala
11:30	[32] Electroweak radiative corrections to nuclear Fermi transitions and CKM unitarity	GENNARI, Michael
12:00	[30] Ab initio calculations for muon capture to probe neutrinoless double-beta decay	JOKINIEMI, Lotta

Friday, 1 March 2024

Morning: Talks (09:30 - 11:00)

-Conveners: Carlo Barbieri

time	[id] title	presenter
09:30	[15] A decisional step for Variational Monte Carlo: optimizing neural quantum states with decision geometry	DRISSI, Mehdi
10:00	[5] Bayesian uncertainty quantification in ab initio nuclear theory	SVENSSON, Isak
10:30	[12] Exotic pairing in heavy nuclei	PALKANOGLU, Georgios

Morning: Talks (11:30 - 12:30)

-Conveners: Carlo Barbieri

time	[id] title	presenter
11:30	[13] Coupling nuclear structure and relativistic hydrodynamic calculations: collectivity in small systems	BALLY, Benjamin
12:00	[21] Collectivity in neutron-rich neon isotopes	HAGEN, Gaute