



# PAINT2024 - Workshop on Progress in Ab Initio Nuclear Theory

## Tuesday, 27 February 2024

### Afternoon: Talks (14:00 - 15:30)

-Conveners: Robert Roth

time	[id] title	presenter
14:00	[7] What's missing? An investigation of $3\text{He}(\alpha,\gamma)^7\text{Be}$ radiative capture	ATKINSON, Mack
14:30	[8] Islands of inversion and other challenges to the no-core shell model	JOHNSON, Calvin
15:00	[9] Intruder structure, shape coexistence, and configuration mixing from an ab initio perspective	CAPRIO, Mark

### Afternoon: Talks (16:00 - 17:30)

-Conveners: Robert Roth

time	[id] title	presenter
16:00	[10] Ab initio investigation of $7\text{Li}(p, \gamma)^8\text{Be}$ and $7\text{Li}(p, e^+ e^-)^8\text{Be}$ processes	GYSBERS, Peter
16:30	[11] Collective and single particle structure of $^{12}\text{Be}$ negative parity spectrum	MCCOY, Anna
17:00	[49] Ab initio description of monopole resonances in light- and medium-mass nuclei	PORRO, Andrea

# Wednesday, 28 February 2024

## Afternoon: Talks (15:00 - 15:30)

-Conveners: Gaute Hagen

time	[id] title	presenter
15:00	[23] Electric dipole polarizability in medium-mass nuclei	BONAITI, Francesca

## Afternoon: Talks (16:00 - 17:00)

-Conveners: Gaute Hagen

time	[id] title	presenter
16:00	[24] The magnetic dipole transition in $^{48}\text{Ca}$	PAPENBROCK, Thomas
16:30	[25] Ab initio spectroscopy from the valence-space density matrix renormalization group	TICHAI, Alex