

Session Program

10–12 Dec 2025

Oak Ridge Annual Nuclear Gathering Event

Morning session

Zeanah Engineering Complex, Rooms 360-362
863 Neyland Dr, Knoxville, TN 37916

Wednesday 10 December

09:25

Morning session

Session | Location: Zeanah Engineering Complex, Rooms 360-362, 863 Neyland Dr, Knoxville, TN 37916

09:25–09:30 **Welcome and introduction**

09:30–10:00 **Power-counting many-body diagrams in the IMSRG**

Speaker
Ragnar Stroberg

10:00–10:30 **Large- N_c constraints on nucleon interactions**

Speaker
Matthias Schindler

10:30

11:00

Morning session

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11:00–11:30 **Quantum Computation**

Speaker
Gautam Rupak

11:30–12:00 **Proton- proton scattering on a quantum computer**

Speaker
Ratna Khadka

12:00

Thursday 11 December

09:30

Morning session

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09:30–10:00 **Superaligned alpha decay of ^{104}Te**

Speaker

Robert Grzywacz

10:30

10:00–10:30 **The role of $\text{SU}(3)$ and $\text{SU}(4)$ in beta decay**

Speaker

Anna McCoy

11:00

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11:00–11:30 **Shape Mixing in an ab initio description of Be isotopes**

Speaker

Daniel Lay

12:00

11:30–12:00 **Path integral approaches to many-body systems**

Speaker

Pranav Sharma

Friday 12 December

09:30

Morning session

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09:30–10:00 **Non-Efimovian Halo Nuclei**

Speaker

Lucas Platter

10:00–10:30 **Coupled-cluster methods for deformed nuclei**

Speaker

Gaute Hagen

10:30

11:00

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11:00–11:30 **Extrapolating many-body resonances: Toward the five-proton decay of ^9N**

Speaker

Nuwan Yapa

11:30–12:00

Ab initio Gamow density matrix renormalization group for broad nuclear many-body resonances

Speaker

Admir Sehovic

12:30

12:00–12:30 **Closing remarks**