**Session Program**

**18–22 May 2026**

# Nuclear theory for astrophysics: Bridging bound-state and continuum physics

## *Presentation*

ECT*, Aula Renzo Leonardi
Strada delle Tabarelle 286, I-38123 Villazzano (Trento)

# Monday 18 May

10:00

## Presentation

**Session** | **Location:** ECT*, Aula Renzo Leonardi, Strada delle Tabarelle 286, I-38123 Villazzano (Trento)

10:00–11:00 **p-capture measurements for the astrophysical γ process**

**Speaker**
Artemis Tsantri

11:00

11:30

## Presentation

**Session** | **Location:** ECT*, Aula Renzo Leonardi, Strada delle Tabarelle 286, I-38123 Villazzano (Trento)

11:30–12:30 **TBD**

**Speaker**
Almudena Arcones

12:30

14:00

## Presentation

**Session** | **Location:** ECT*, Aula Renzo Leonardi, Strada delle Tabarelle 286, I-38123 Villazzano (Trento)

14:00–15:00 **Effective interactions for nucleon scattering from magnesium isotopes**

**Speaker**
Charlotte Elster

15:00

15:30

## Presentation

**Session** | **Location:** ECT*, Aula Renzo Leonardi, Strada delle Tabarelle 286, I-38123 Villazzano (Trento)

15:30–16:30 **Green's function approach to nuclear reactions**

**Speaker**
Gregory Potel Aguilar

16:30

# Tuesday 19 May

10:00

## Presentation

**Session** | **Location:** ECT*, Aula Renzo Leonardi, Strada delle Tabarelle 286, I-38123 Villazzano (Trento)

10:00–11:00 **Scattering in a shell-model basis**

**Speaker**
Calvin Johnson

11:00

11:30

## Presentation

**Session** | **Location:** ECT*, Aula Renzo Leonardi, Strada delle Tabarelle 286, I-38123 Villazzano (Trento)

11:30–12:30 **7Li in the no-core shell model with continuum framework with coupling of mass partitions**

**Speaker**
Jakub Herko

12:30

14:00

## Presentation

**Session** | **Location:** ECT*, Aula Renzo Leonardi, Strada delle Tabarelle 286, I-38123 Villazzano (Trento)

14:00–15:00 **Ab initio computations of heavy and deformed nuclei**

**Speaker**
Alexander Tichai

15:00

15:30

## Presentation

**Session** | **Location:** ECT*, Aula Renzo Leonardi, Strada delle Tabarelle 286, I-38123 Villazzano (Trento)

15:30–16:30 **Propagator based approaches toward microscopic optical potentials**

**Speaker**
Carlo Barbieri

16:30

# Wednesday 20 May

10:00

## Presentation

**Session** | **Location:** ECT*, Aula Renzo Leonardi, Strada delle Tabarelle 286, I-38123 Villazzano (Trento)

10:00–11:00 **A general route to ab initio nuclear reactions in low energy region**

**Speaker**
Hang Yu

11:00

11:30

## Presentation

**Session** | **Location:** ECT*, Aula Renzo Leonardi, Strada delle Tabarelle 286, I-38123 Villazzano (Trento)

11:30–12:30 **Towards an effective theory of the nuclear shell model**

**Speaker**
Chang Whan Jung

12:30

14:00

## Presentation

**Session** | **Location:** ECT*, Aula Renzo Leonardi, Strada delle Tabarelle 286, I-38123 Villazzano (Trento)

14:00–15:00 **Exploring Real-Time Quantum Nuclear Dynamics: Mean-Field and Beyond**

**Speaker**
Ionel Stetcu

15:00

15:30

## Presentation

**Session** | **Location:** ECT*, Aula Renzo Leonardi, Strada delle Tabarelle 286, I-38123 Villazzano (Trento)

15:30–16:30 **Borromean nuclei: structure and reactions**

**Speaker**
Patrick McGlynn

16:30

# Thursday 21 May

10:00

## Presentation

**Session** | **Location:** ECT*, Aula Renzo Leonardi, Strada delle Tabarelle 286, I-38123 Villazzano (Trento)

10:00–11:00 **Lattice Effective Field Theory study of nuclear beta decay**

**Speaker**
Teng Wang

11:00

11:30

## Presentation

**Session** | **Location:** ECT*, Aula Renzo Leonardi, Strada delle Tabarelle 286, I-38123 Villazzano (Trento)

11:30–12:30 **Ab initio calculations of beta-decay half-lives for N=50 neutron-rich nuclei**

**Speaker**
Zhen Li

12:30

14:00

## Presentation

**Session** | **Location:** ECT*, Aula Renzo Leonardi, Strada delle Tabarelle 286, I-38123 Villazzano (Trento)

14:00–15:00 **Most Wanted: Microscopic Nuclear Structure for Predictive Reaction Modeling**

**Speaker**
Grigor Sargsyan

15:00

15:30

## Presentation

**Session** | **Location:** ECT*, Aula Renzo Leonardi, Strada delle Tabarelle 286, I-38123 Villazzano (Trento)

15:30–16:30 **Grounding the few-body problem in microscopic nuclear theory**

**Speaker**
Linda Hlophe

16:30

# Friday 22 May

10:00

## Presentation

**Session** | **Location:** ECT*, Aula Renzo Leonardi, Strada delle Tabarelle 286, I-38123 Villazzano (Trento)

10:00–11:00 **Nuclear structure and dynamics from coupled-cluster theory**

**Speaker**
Dr Francesco Marino

11:00

11:30

## Presentation

**Session** | **Location:** ECT*, Aula Renzo Leonardi, Strada delle Tabarelle 286, I-38123 Villazzano (Trento)

11:30–12:30 **Ab initio perturbative and non-perturbative methods for open-shell nuclei**

**Speaker**
Alberto Scalesi

12:30