

**Session Program**

**Jun 11 - 15, 2018**

**15th Varenna Conference on Nuclear Reaction  
Mechanisms**

***Nuclear reactions***

Villa Monastero  
Varenna (Italy)

## Tue, June 12

2:45 PM

### Nuclear reactions

**Session** | **Location:** Villa Monastero, Varenna (Italy) | **Convener:** Roberto Capote

14:45 - 15:15

#### Probing Nuclear Beta-Decay by Heavy Ion Charge Exchange Reactions

**Speaker**

Prof. Horst Lenske

15:15 - 15:45

#### Advances in microscopic modeling of $(n, \alpha n \gamma)$ reactions for actinides

**Speaker**

Dr Marc Dupuis

15:45 - 16:05

#### Heavy Ion charge exchange reactions and the link with beta decay processes

**Speaker**

Maria Colonna

16:05 - 16:25

#### Coulomb-nuclear interference and isospin characterization of the first 2+ and 3- transitions by inelastic scattering of alpha particles on $^{90,92}\text{Zr}$

**Speaker**

Prof. Thereza Borello-Lewin

16:25 - 16:45

#### Towards a non-local microscopic description of scattering observables of nucleons on deformed nuclei

**Speaker**

Mr Amine Nasri

4:45 PM

# Fri, June 15

11:30 AM

## Nuclear reactions

**Session** | **Location:** Villa Monastero, Varenna (Italy) | **Convener:** Mr Marc Dupuis

11:30 - 12:00

### Statistical-model description of gamma decay from compound-nucleus resonances

**Speaker**

Hans Weidenmueller

12:00 - 12:20

### Statistical multi-step direct reaction models and the RPA

**Speaker**

Mr Emanuel V. Chimanski

12:20 - 12:40

### The role of nucleon knockout in pre-equilibrium reactions

**Speaker**

Brett Carlson

12:40 - 13:00

### Proton induced pre-equilibrium reactions to the continuum as a test to the reaction mechanism

**Speaker**

Sevdalina Dimitrova

1:00 PM

3:00 PM

## Nuclear reactions

**Session** | **Location:** Villa Monastero, Varenna (Italy) | **Convener:** Toshihiko Kawano

15:00 - 15:30

### Capture Cross Sections for Unstable Isotopes from Surrogate Reaction Data and Theory

**Speaker**

Jutta Escher

15:30 - 15:50

### Neutron Capture Cross Sections and Strength Functions on $^{147}\text{Sm}$ Nucleus

**Speaker**

Dr Cristiana Oprea

15:50 - 16:10

### Neutron width statistics in a realistic resonance-reaction model

**Speaker**

Paul Fanto

16:10 - 16:30

### Transfer reactions induced with $^{56}\text{Ni}$ : np pairing and N=28 shell closure

**Speaker**

Anastasia Georgiadou

16:30 - 16:50

**Multinucleon transfer processes in the  $^{197}\text{Au}+^{130}\text{Te}$  system studied with a high-resolution kinematic coincidence****Speaker**

Franco Galtarossa

16:50 - 17:10

**Shell-model studies of the astrophysical mirror rp-reactions  $^{34}\text{S}(p, \gamma)^{35}\text{Cl}$  and  $^{34g,m}\text{Cl}(p, \gamma)^{35}\text{Ar}$** **Speaker**

Prof. Werner Richter

5:10 PM