

# **Structure and Reactions for Nuclear Astrophysics**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## **A. Poves**

*Wednesday, 22 November 2017 14:10 (30 minutes)*

Shape coexistence; Monopole vs Multipole.

### **Summary**

**Session Classification:** Session 1

Contribution ID: 2

Type: **not specified**

## **J. Duprat**

*Wednesday, 22 November 2017 14:40 (30 minutes)*

Isotopic analysis of cometary dust

### **Summary**

**Session Classification:** Session 1

Contribution ID: 3

Type: **not specified**

## **G. Duchêne**

*Wednesday, 22 November 2017 15:10 (30 minutes)*

Nuclear structure evolutions in the vicinity of the N=50 gap

### **Summary**

**Session Classification:** Session 1

Contribution ID: 4

Type: **not specified**

## **M. Moukkadam**

*Wednesday, 22 November 2017 15:40 (30 minutes)*

X-ray bursts: Indirect measurement of the astrophysical  $^{23}\text{Al}(p,\gamma)$  reaction

### **Summary**

**Session Classification:** Session 1

Contribution ID: 5

Type: **not specified**

## **K. Sieja**

*Wednesday, 22 November 2017 16:40 (30 minutes)*

Shell Model M1 and E1 strengths and their impact on reaction rates

### **Summary**

**Session Classification:** Session 1

Contribution ID: 6

Type: **not specified**

## **M. Ploszajczak**

*Thursday, 23 November 2017 09:00 (30 minutes)*

Continuum shell model: Towards the unified theory of nuclear structure and reactions

### **Summary**

**Session Classification:** Session 2

Contribution ID: 7

Type: **not specified**

## **F. Hammache**

*Thursday, 23 November 2017 09:30 (30 minutes)*

Recent results of astrophysical interest using indirect techniques

### **Summary**

**Session Classification:** Session 2



Contribution ID: 8

Type: **not specified**

## **G. Lotay**

*Thursday, 23 November 2017 10:00 (30 minutes)*

Experimental investigations of explosive stellar phenomena

### **Summary**

**Session Classification:** Session 2

Contribution ID: 9

Type: **not specified**

## **M. Heine**

*Thursday, 23 November 2017 11:30 (30 minutes)*

STELLA, a measurement station for deep sub-barrier fusion cross sections of light heavy-ion systems

### **Summary**

**Session Classification:** Session 2

Contribution ID: **10**

Type: **not specified**

## **P. Marevic**

*Thursday, 23 November 2017 11:00 (30 minutes)*

Nuclear clustering in the energy density functional approach

### **Summary**

**Session Classification:** Session 2

Contribution ID: 11

Type: **not specified**

## **S. Peru**

*Thursday, 23 November 2017 14:00 (30 minutes)*

QRPA approach for nuclear structure, nuclear reactions and astrophysics

### **Summary**

**Session Classification:** Session 3

Contribution ID: 12

Type: **not specified**

## **M. Mougeot**

*Thursday, 23 November 2017 14:30 (30 minutes)*

High-precision mass measurements of radioactive nuclei for nuclear-astrophysics

### **Summary**

**Session Classification:** Session 3

Contribution ID: 13

Type: **not specified**

## **D. Verney**

*Thursday, 23 November 2017 15:00 (30 minutes)*

Spectroscopy investigation of the  $^{78}\text{Ni}$  region : recent progress and future perspectives

### **Summary**

**Session Classification:** Session 3

Contribution ID: 14

Type: **not specified**

## **D. Jenkins**

*Thursday, 23 November 2017 15:30 (30 minutes)*

Clustering and superdeformation in 28Si

### **Summary**

**Session Classification:** Session 3

Contribution ID: 15

Type: **not specified**

## **P. Adsley**

*Thursday, 23 November 2017 16:30 (30 minutes)*

High-resolution study of states in Mg-26 and updated information about states contributing to Ne-22+He-4 reactions

### **Summary**

**Session Classification:** Session 3



Contribution ID: **16**

Type: **not specified**

## **A. Korichi**

*Thursday, 23 November 2017 17:00 (30 minutes)*

### **Summary**

**Session Classification:** Session 3

Contribution ID: 17

Type: **not specified**

## **R. Hirschi**

*Friday, 24 November 2017 09:00 (30 minutes)*

Stellar Evolution and Key Nuclear Uncertainties

### **Summary**

**Session Classification:** Session 4

Contribution ID: **18**

Type: **not specified**

## **P. Descouvemont**

*Friday, 24 November 2017 09:30 (30 minutes)*

Role of the Hoyle state in  $^{12}\text{C}+^{12}\text{C}$  fusion

### **Summary**

**Session Classification:** Session 4

Contribution ID: **19**

Type: **not specified**

## **G. Fruet**

*Friday, 24 November 2017 10:00 (30 minutes)*

New 12C+12C sub-barrier fusion cross section measurements within the STELLA project

### **Summary**

**Session Classification:** Session 4

Contribution ID: **20**

Type: **not specified**

## **G. Montagnoli**

*Friday, 24 November 2017 11:30 (30 minutes)*

Heavy-Ion Fusion Experiments at LNL and  
their possible Astrophysical Interest

### **Summary**

**Session Classification:** Session 4

Contribution ID: 21

Type: **not specified**

## **G. Martinez-Pinedo**

*Friday, 24 November 2017 11:00 (30 minutes)*

Kilonova: an electromagnetic signal of heavy element nucleosynthesis

### **Summary**

**Session Classification:** Session 4

Contribution ID: 22

Type: **not specified**

## Discussion

*Thursday, 23 November 2017 17:30 (30 minutes)*

### Summary

**Session Classification:** Session 3

Contribution ID: 23

Type: **not specified**

## Discussion

*Wednesday, 22 November 2017 17:40 (30 minutes)*

### Summary

**Session Classification:** Session 1



Contribution ID: 24

Type: **not specified**

## **Workshop closing**

*Friday, 24 November 2017 12:30 (10 minutes)*

### **Summary**

**Session Classification:** Session 4

Contribution ID: 25

Type: **not specified**

## **B. De Canditiis**

*Wednesday, 22 November 2017 17:10 (30 minutes)*

The scanning table: an IPHC tool for full  
characterization of AGATA detectors

### **Summary**

**Session Classification:** Session 1

Contribution ID: 26

Type: **not specified**

## **N. Itaco**

*Friday, 24 November 2017 12:00 (30 minutes)*

Realistic shell-model calculations for astrophysically relevant  
Gamow-Teller distributions

### **Summary**

**Session Classification:** Session 4

Contribution ID: 27

Type: **not specified**

## **D. Fahlin-Stromberg**

*Thursday, 23 November 2017 12:00 (30 minutes)*

Urca processes in stellar degenerate cores

### **Summary**

**Session Classification:** Session 2

Contribution ID: 28

Type: **not specified**

## Informal discussions

*Friday, 24 November 2017 14:00 (1h 30m)*

### Summary

Contribution ID: 29

Type: **not specified**

## **I. Ripp-Baudot**

*Wednesday, 22 November 2017 14:00 (10 minutes)*

IPHC presentation

### **Summary**

**Session Classification:** Session 1