

# ND2016

11-16 / 09-BRUGES BELGIUM

## CALL for ABSTRACTS

### INVITATION

ND2016 is the primary conference for the advancement of nuclear data in the interest of both science and technology. It addresses all important active fields of investigation: fundamental nuclear physics, astrophysics, nuclear energy, nuclear medicine, nuclear non-proliferation, safeguards and arms control.

Data characterizing nuclear structure, decay modes and reactions are of paramount importance in many fields of research and application. Design studies, safety analyses, interpretations of tests, benchmarks and experiments as well as the need to address fundamental questions in both basic science and applications rely on good quality nuclear data. Significant progress is being made towards more comprehensive in-depth physics modelling through improved computing and data handling. Access to good quality nuclear data is a well-recognized pre-requisite for such successful analyses and reliable predictions.

Breakthroughs in experiments and theory are often the basis of technological progress. Recognizing this important fact, ND2016 will provide an appropriate forum for the communication of developments in fundamental nuclear physics research that may be beneficial to the nuclear data and allow interactions and exchange of experiences among the applications communities.

The organisers of ND2016 invite all scientists and engineers interested in one of the topics of the conference to present their insights and achievements. The organisers are encouraging young scientists and engineers to participate through a reduced conference fee.

Your abstracts can be submitted here:

[ON-LINE SUBMISSION](#)

### TOPICS

- ▶ Nuclear reaction measurements, analysis and evaluation
- ▶ Nuclear masses, structure and decay data measurements
- ▶ Nuclear reaction and structure theory, models and codes
- ▶ Fission physics and observables
- ▶ Spallation, high and intermediate energy reactions
- ▶ Nuclear physics of fusion
- ▶ Astro nuclear physics
- ▶ Experimental facilities, equipment, techniques and methods
- ▶ Integral experiments, benchmarks and data validation
- ▶ Importance of nuclear data for reactor operation and safety
- ▶ Importance of nuclear data for other applications
- ▶ Nuclear data in science and engineering
- ▶ Medical radioisotopes production
- ▶ Particle therapy
- ▶ Properties of medical radioisotopes
- ▶ Novel radioisotope production methods
- ▶ Evaluated libraries, processing and consistency
- ▶ Evaluation methodology
- ▶ Uncertainty and covariance generation and propagation
- ▶ Thermal scattering laws and libraries
- ▶ Dissemination, data formats and storage
- ▶ Education

### IMPORTANT DATES & DEADLINES

- ▶ Submission deadline: **16/01/2016**
- ▶ Deadline for contributions: **16/09/2016**

# www.nd2016.eu

International Conference on Nuclear Data for Science and Technology