

Session Program

Jun 21 - 25, 2021



ANIMMA 2021

04 Research Reactors and Particle Accelerators

Clarion Congress Hotel Prague, 3rd floor
Freyova 945/33 , 190 00 Prague 9 - Vysočany

Tue, June 22

2:00 PM

04 Research Reactors and Particle Accelerators

Session | **Location:** Clarion Congress Hotel Prague, TAURUS | **Conveners:** HORTVATH, Akos, MUTTI, Paolo

2:00 – 2:20 PM

#04-173 Progress and prospects on nuclear instrumentation development achieved through JSI - CEA collaboration

Speaker

SNOJ, Luka

2:20 – 2:40 PM

#04-167 First in-core gamma spectroscopy experiments in the zero power reactor CROCUS

Speaker

PAKARI, Oskari

2:40 – 3:00 PM

#04-190 High resolution measurements with miniature neutron scintillators in the SUR-100 zero power reactor

Speaker

BRUNETTO, Edoardo Luciano

3:00 – 3:20 PM

#04-185 Calibration of CFUL01 fission chambers in the standard neutron fields of BR1 reactor at SCK CEN

Speaker

KOCHETKOV, Anatoly

3:20 – 3:40 PM

#04-184 Local and high distance neutron and gamma measurements of fuel rods oscillation experiments

Speaker

LAMIRAND, Vincent

3:40 – 4:00 PM

#04-176 Design of a 150-miniature detectors 3D core-mapping system for the CROCUS reactor

Speaker

VITULLO, Fanny

4:00 PM

Wed, June 23

2:00 PM

04 Research Reactors and Particle Accelerators

Session | **Location:** Clarion Congress Hotel Prague, TAURUS | **Conveners:** REYNARD-CARETTE, Christelle, KOHSE, Gordon

2:00 – 2:20 PM

#04-80 Sensitivity Analysis of an Advanced Measurement Method for Thermal Neutrons Absorbers Detection in Irradiated Beryllium

Speaker

WROBLEWSKA, Malgorzata

2:20 – 2:40 PM

#04-126 CEA-JSI Experimental Benchmark for validation of the modelling of neutron and gamma-ray detection instrumentation used in the JSI TRIGA reactor

Speakers

FAUSSER, Clément, Mr THIOLLAY, Nicolas, Mr DESTOUCHES, Christophe

2:40 – 3:00 PM

#04-75 3D thermal and radiation-matter interaction simulations of a SiC solid-state detector for neutron flux measurements in JSI TRIGA Mark II research reactor

Speaker

VALERO, Valentin

3:00 – 3:20 PM

#04-37 Numerical and experimental characterization of the neutron flux and spectra in the core of the CNESTEN's TRIGA Mark II research reactor

Speaker

GHNINOU, Hamza

3:20 – 3:40 PM

#04-224 Optimization of Next-Generation Fast-Spectrum Self-Powered Neutron Detectors using Geant4

Speaker

GOETZ, Kathleen

3:40 – 4:00 PM

#04-158 Fragment production in 200MeV proton reaction on ^{232}Th , experimental and simulated data.

Speaker

HOLOMB, Robert

4:00 PM

4:20 PM

04 Research Reactors and Particle Accelerators: Parallel Intensive Oral Sessions

Session | **Location:** Clarion Congress Hotel Prague, TAURUS | **Conveners:** KOŠŤÁL, Michal, DESTOUCHES, Christophe

4:20 – 4:25 PM

#04-276 Characterization of the external pulsed beam at CMAM

Speaker

VIÑALS, Sílvia

4:25 - 4:30 PM

#04-194 Diamond detectors for neutron flux measurement during transient neutron flux changes**Speaker**

NOVAK, Ondrej

4:30 - 4:35 PM

#04-192 Measuring gamma doses over the mGy-MGy range with a single type of TLD detector**Speaker**

GRUEL, Adrien

4:35 - 4:40 PM

#04-160 Online optical refractive index measurement in research reactor core**Speaker**

FOURNEAU, Gary

4:40 - 4:45 PM

#04-136 Reactor pulse operation for nuclear instrumentation detector testing - preparation of a dedicated experimental campaign at the JSI TRIGA reactor**Speaker**

RADULOVIĆ, Vladimir

4:45 - 4:50 PM

#04-123 Characterization of calorimeter responses under laboratory conditions thanks to an optimized transient thermal test bench**Speaker**

REBAUD, Jérémy

4:50 - 4:55 PM

#04-63 CAREDAS: a Comprehensive Architecture for a Redondant and Evolutive Data Acquisition System for JHR reactor and measuring bench for CEA Cadarache facilities**Speaker**

LEROUX, Fabrice

4:55 - 5:00 PM

#04-61 PISTIL, a reactivity modulation device to probe the transfer function of the research nuclear reactor CROCUS**Speaker**

JIANG, Yifeng

5:00 - 5:20 PM

Empty

5:20 PM

Thu, June 24

2:00 PM

04 Research Reactors and Particle Accelerators

Session | **Location:** Clarion Congress Hotel Prague, AQUARIUS | **Conveners:**
WAGEMANS, Jan, CALDERONI, Patrick

2:00 - 2:20 PM **#04-26 JHR Irradiation Devices. Inspection Methods proposal**

Speaker
HILLBERG, Seppo

2:20 - 2:40 PM

#04-82 Design of an acoustic sensor for fission gas release characterization devoted to JHR environment measurements.

Speaker
BAUDRY, Florian

2:40 - 3:00 PM

#04-119 Study review of the CALORRE differential calorimeter: definition of designs for different nuclear environments

Speaker
VOLTE, Adrien

3:00 - 3:20 PM

#04-77 Assessment of irradiation performance in the Jules Horowitz Reactor (JHR) using the CARMEN measuring device

Speaker
BLANCHET, David

3:20 - 3:40 PM

#04-196 Summary of Thermocouple Performance in the Advanced Gas Reactor Experiment AGR-5/6/7 During Irradiation in the Advanced Test Reactor

Speaker
PALMER, Joe

3:40 - 4:00 PM

#04-161 Confocal chromatic sensor for displacement monitoring in research reactor

Speaker
AGOYAN, Marion

4:00 PM

4:20 PM

04 Research Reactors and Particle Accelerators: Parallel Intensive Oral Sessions

Session | **Location:** Clarion Congress Hotel Prague, TAURUS | **Conveners:**
FERRANDIS, Jean-yves, PONTILLON, Yves

4:20 - 4:25 PM

#04-29 Development of an LVDT Conditioning unit for use on LVDTs in a research reactor

Speaker
VAN NIEUWENHOVE, Rudi

4:25 – 4:30 PM

#04-25 Characterization of neutron emission during pulse mode of low output electronic neutron generator**Speaker**

BILY, Tomas

4:30 – 4:35 PM

#04-21 Characterization of the X-ray spectrum of a linear electron accelerator**Speaker**

MAULIN, Maëva

4:35 – 4:40 PM

#04-18 C/O logging by using the associated alpha particle method: Proof of principle**Speaker**

BATUR, Josip

4:40 – 4:45 PM

#04-13 Experimental study of ISHTAR thermostatic irradiation device for the MARIA research reactor**Speaker**

LIPKA, Maciej

4:45 – 4:50 PM

#04-8 Investigation of pulsed fields generated by pulsed ionizing radiation generating equipment, testing of radiation measuring detectors, detection systems and simulations supporting testing**Speakers**

BODOR , Károly, GULYÁS, Attila

4:50 PM

Fri, June 25

2:00 PM

04 Research Reactors and Particle Accelerators

Session | **Location:** Clarion Congress Hotel Prague, AQUARIUS | **Conveners:**
LAMIRAND, Vincent, DESTOUCHES, Christophe

2:00 - 2:20 PM

#04-102 Measurement of prompt gamma field above the VR-1 water level

Speaker

CZAKOJ, Tomáš

2:20 - 2:40 PM

#04-97 CABRI test events monitoring through three measurement systems

Speakers

GRANDO, Quentin, MIROTTA, Salvatore

2:40 - 3:00 PM

#04-109 Development of a wideband current amplifier dedicated to Fission Chamber measurement

Speaker

BISIACH, Danilo

3:00 - 3:20 PM

#04-90 New Neutron Imaging Facility development at the Penn State Breazeale Nuclear Reactor

Speaker

KENGES, Alibek

3:20 - 3:40 PM

#04-36 Some Considerations on The Energy Deposition During a Ria Transient Based on Monte Carlo Simulations

Speaker

BARTOS, Julia

3:40 - 4:00 PM

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4:00 PM