Spontaneous and induced fission of very heavy and super-heavy nuclei



Report of Contributions

Welcome

Contribution ID: 1 Type: not specified

Welcome

Monday 9 April 2018 10:30 (30 minutes)

Presenter: VARDACI, Emanuele (Università degli studi di Napoli)

Contribution ID: 2 Type: not specified

Super-Heavy Nuclei:production and decay properties

Monday 9 April 2018 14:30 (50 minutes)

Presenter: MOLLER, Peter (LANL, Los Alamos)

Session Classification: Session 2

Spontaneous and ... / Report of Contributions

Welcome

Contribution ID: 3 Type: not specified

Welcome

Contribution ID: 4 Type: **not specified**

Fission of heaviest nuclei

Monday 9 April 2018 11:00 (50 minutes)

Presenter: Dr OGANESSIAN, Yuri (JINR Dubna)

Session Classification: Session 1

Contribution ID: 5 Type: **not specified**

Predictions Fission Fragment Mass Distributions for Super-Heavy Elements

Monday 9 April 2018 11:50 (50 minutes)

Presenter: Dr CARJAN, Nicolae (JINR Dubna & NIPNE-HH Bucharest)

Session Classification: Session 1

Contribution ID: 6 Type: **not specified**

Spontaneous Fission Properties of Super-Heavy Nuclei

Monday 9 April 2018 15:20 (50 minutes)

Presenter: HESSBERGER, Fritz P. (GSI, Darmstadt)

Session Classification: Session 2

Contribution ID: 7 Type: **not specified**

Alpha Decay and Fission of High-K Isomers

Monday 9 April 2018 16:30 (50 minutes)

Presenter: CLARK, Roderick (LBNL, Berkeley)

Session Classification: Session 2

Contribution ID: 8 Type: **not specified**

SHE-FACTORY: A New Facility for Super-Heavy Element Research

Tuesday 10 April 2018 09:30 (50 minutes)

Presenter: DMITRIEV, Sergey (JINR, Dubna)

Session Classification: Session 3

Contribution ID: 9 Type: not specified

Impact of quasifission on SHE production

Tuesday 10 April 2018 10:20 (50 minutes)

Presenter: ITKIS, Mikhail (JINR, Dubna)

Session Classification: Session 3

Contribution ID: 10 Type: not specified

Production of neutron-rich heavy and super-heavy nuclei in multinucleon transfer reactions

Tuesday 10 April 2018 11:30 (50 minutes)

 $\begin{tabular}{ll} \textbf{Presenter:} & KARPOV \ , \ Alexander \ (JINR, Dubna) \end{tabular}$

Session Classification: Session 4

Contribution ID: 11 Type: not specified

Dynamical effects of superfluidity on multi-nucleon transfer, fusion and fission

Tuesday 10 April 2018 12:20 (50 minutes)

Presenter: SCAMPS, Guillaume (University of Tsukuba)

Session Classification: Session 4

Contribution ID: 12 Type: not specified

Symmetric, asymmetric and super-asymmetric modes in fission and quasifission of heavy and super-heavy nuclei

Tuesday 10 April 2018 14:30 (50 minutes)

Presenter: ITKIS, Iulia (JINR, Dubna)

Session Classification: Session 5

Contribution ID: 13 Type: not specified

Microscopic studies of fission dynamics based on energy density functionals

Tuesday 10 April 2018 15:20 (50 minutes)

Presenter: VRETENAR, Dario (University of Zagreb)

Session Classification: Session 5

Contribution ID: 14 Type: not specified

Time-dependent Density Functional Theory for nuclear reactions –advantages and disadvantages

Tuesday 10 April 2018 16:30 (50 minutes)

Presenter: MAGIERSKI, Piotr (Warsaw University)

Session Classification: Session 5

Contribution ID: 15 Type: not specified

Super-heavy Element Research at GSI

Wednesday 11 April 2018 09:30 (50 minutes)

Presenter: BLOCK, Michael (GSI, Darmsdadt)

Session Classification: Session 6

Contribution ID: 16 Type: not specified

Fission Barriers of Super-Heavy Nuclei and Search for Element 120

Wednesday 11 April 2018 10:20 (50 minutes)

Presenter: HOFMANN, Sigurd (GSI, Darmstadt)

Session Classification: Session 6

Contribution ID: 17 Type: not specified

The SPES project at the INFN- Laboratori Nazionali di Legnaro

Wednesday 11 April 2018 11:30 (50 minutes)

Presenter: PRETE, Gianfranco (Laboratori Nazionali di Legnaro)

Session Classification: Session 7

Contribution ID: 18 Type: not specified

Exotic nuclei and the SPES radioactive ion beam facility

Wednesday 11 April 2018 12:20 (50 minutes)

Presenter: DE ANGELIS, Giacomo (Laboratori Nazionali di Legnaro)

Session Classification: Session 7

Contribution ID: 19 Type: not specified

Contributions to the science program at the SHE Factory and SPES

Wednesday 11 April 2018 14:30 (50 minutes)

Presenter: RYKACZEWSKI, Krzysztof (ORNL, Oak Ridge)

Session Classification: Session 8

Contribution ID: 20 Type: not specified

Radioactive ion beams for the fission study of the heaviest neutron-rich nuclei

Wednesday 11 April 2018 15:20 (50 minutes)

Presenter: TER-AKOPIAN, Gurgen (JINR, Dubna)

Session Classification: Session 8

Contribution ID: 21 Type: not specified

Secondary heavy ion beams as a tool for investigation of fusion mechanism

Wednesday 11 April 2018 16:30 (50 minutes)

Presenter: CHUBARIAN , Greg (Cyclotron Lab, Texas A & M)

Session Classification: Session 8

Contribution ID: 22 Type: not specified

Theory of spontaneous fission of super heavy nuclei and its competitor decay modes

Thursday 12 April 2018 09:30 (50 minutes)

Presenter: POENARU, Dorin (Horia Hulubei National Institute, Bucharest)

Session Classification: Session 9

Contribution ID: 23 Type: not specified

Spontaneous Fission of SHE: A New Source of Insights into the Structure of Neutron-Rich Nuclei

Thursday 12 April 2018 10:20 (50 minutes)

Presenter: ZACHARY, Christopher

Session Classification: Session 9

Contribution ID: 24 Type: not specified

Fission hindrance of heaviest high-K isomers

Thursday 12 April 2018 11:30 (50 minutes)

Presenter: KOWAL, Michal (NCBJ, Warsaw)

Session Classification: Session 10

Contribution ID: 25 Type: not specified

From instantons to spontaneous fission rates

Thursday 12 April 2018 12:20 (50 minutes)

Presenter: SKALSKI, Janusz (NCBJ, Warsaw)

Session Classification: Session 10

Contribution ID: 26 Type: not specified

An instanton-motivated approach to the spontaneous fission of odd nuclei

Thursday 12 April 2018 14:30 (50 minutes)

Presenter: BRODZIŃKI, Wojciech (NCBJ, Warsaw)

Session Classification: Session 11

Contribution ID: 27 Type: not specified

Half-lives of nuclei around the super-heavy nucleus 304120

Thursday 12 April 2018 15:20 (50 minutes)

Presenter: SILISTEANU, Ion

Session Classification: Session 11

Contribution ID: 28 Type: not specified

Probing the evolution of the fission modes with a microscopic approach

Thursday 12 April 2018 16:30 (50 minutes)

Presenter: REGNIER, David (IPN, Orsay)

Session Classification: Session 11

Contribution ID: 29 Type: not specified

Correspondence between cluster radioactivity of and asymmetric fission of super-heavy nuclei

Friday 13 April 2018 09:30 (50 minutes)

Presenter: WARDA, Michal (UMCS, Lublin)

Session Classification: Session 12

Contribution ID: 30 Type: not specified

Cluster emission in 294Og

Friday 13 April 2018 10:20 (50 minutes)

Presenter: MATHESON, Zachary (Michigan State University)

Session Classification: Session 12