NA02-NUSPRASEN



NUclear Structure Physics, Reactions, Astrophysics and Superheavy Elements Network

NUSPRASEN Workshop on Nuclear Reactions – Theory and Experiment Warsaw (Poland), 22.-24. January 2018

Concluding remarks

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NUclear Structure Physics, Reactions, Astrophysics and Superheavy Elements Network

NUSPRASEN is the physics network in ENSAR-2

- which organizes and supports workshops on
 - Nuclear structure
 - Nuclear reactions
 - Nuclear astrophysics
 - Superheavy elements
- which raises synergies of the ENSAR-2 work packages and the ENSAR-2 access facilities
- which coordinates the related activities and
- which disseminates its results

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Workshop on nuclear reactions

This NUSPRASEN workshop focused on **nuclear reactions** and related topics, such as **nuclear structure**, **dynamics**, **nuclear astrophysics**, **applications**

NLC (Warsaw and Cracow joint consortium) is one of the transnational access facilities in ENSAR-2. The present workshop enhances the information exchange among the ENSAR-2 partners and contribute to optimize the exploitation of their access facilities, in theory and experiment

Scientific Committee:

Angela Bonaccorso (INFN, Pisa, Italy)

Denis Lacroix (IPN Orsay, France) – Chair

Adam Maj (INP, Krakow, Poland)

Pawel Napiorkowski (HIL, Warsaw, Poland)

Krzysztof Rusek (HIL, Warsaw, Poland) – Co-Chair

Christoph Scheidenberger (GSI, Darmstadt, Germany) – Co-Chair Livius Trache (NIPNE, Bucharest, Romania)

...and with excellent support by Justyna Samorajczyk-Pyśk



Workshop deliverable

A report of the present workshop will enter the mid-term report of NUSPRASEN, which is due in May 2018. The following topics will be addressed:

- Denis Lacroix: overview reaction theory
- Dolores Cortina-Gil: overview reaction experiments
- Joaquin Gomez-Camacho: "small" facilities importance for the community, educational aspects, applications, industry cooperations; co-operation of different ENSAR2 activities (like NUSPRASEN and ENSAF)
- Livius Trache: nuclear reactions and their importance in nuclear astrophysics and vice versa
- Josef Pochodzalla: hypernuclei physics as an emerging field in our community
- ... more to add?

If you want to contribute to the report, inject certain points or add more considerations, please contact me or the persons assigned above – thanks!







NUSPRASEN future events

The schedule up to end of project was outlined by the Steering Committee and looks as follows:

- SPES "Workshop on Low-E. RIBs for fundamental symmetries", Feb. 1-2, 2018, Pisa (Italy)
- **15**th Russbach school, March 18-24, 2018, Russbach (Austria)
- Carpathian Summer School of Physics 2018, July 1-14, 2018, Sinaia, Romania
- **EURISOL Town Meeting**, July 2-4, 2018, Pisa (Italy)
- WS on Explosive Nucleosynthesis, Debrecen, Hungary; Sept. 2018
- WS on current and future experiments at GANIL, Caen, France, Oct. 8-12, 2018
- ECT* "Workshop on Indirect Methods in Nuclear Astrophysics", Nov.2018
- **16**th **Russbach school** in 2019 (date: t.b.fixed)
- WS Superheavy elements, tentative date: March 2019)
- WS "Cross-combining elements (theory, instrumentation, computing, applications,...)"
 (place t.b.d., date: early 2019)
- WS "New avenues in nuclear physics: ways forward" (place&date: t.b.d.)
- WS on "New science opportunities at ELI-NP", Bucharest, early 2019
- St. Tecla school 2019 (date: t.b.fixed)

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Thank you to

- the Scientific Committee
- all speakers
- the local team!



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Steering Committee

The NUSPRASEN Steering Committee has been set up, it is composed of the following members:

- A. Bonaccorso (U.Pisa, Italy)
- M. Borge (CSIC-Madrid, Spain)
- P. Dendooven (KVI-CART, The Netherlands)
- Z. Fulop (Atomki, Hungary)
- R. Herzberg (U.Liverpool, UK)
- A. Jokinen (U.Jyväskylä, Finland)
- D. Lacroix (IPN-Orsay, France)
- S. Lenzi (U.Padova, Italy)
- A. Maj (U.Cracow, Poland)
- C. Scheidenberger (GSI, Germany)
- L. Trache (IFIN-HH, Romania)