

Monday

May 15



7:30–9:00 Breakfast

9:00 Opening address (A. Herzáň, M. Venhart)

Session 1

Chairman: Tibor Kibédi

09:10 | 09:50 | John L. Wood (Georgia Institute of Technology, USA)  
*Emergence of Simple Patterns in Nuclear Structure and Mixing of These Structures*

09:50 | 10:30 | Paul Garrett (University of Guelph, Canada)  
*Shape coexistence in the Ru isotopes*

Coffee Break

Session 2

Chairman: Magda Zielińska

10:50 | 11:20 | Katarzyna Wrzosek-Lipska (University of Warsaw, Poland)  
*Shape coexistence studied with Coulomb excitation in the ( $Z = 80$ ,  $N \sim 104$ ) and ( $Z = 48$ ,  $N \sim 60$ ) regions*

11:20 | 11:50 | Adrian M. Plaza (Uni of Liverpool, UK & Uni. of Jyväskylä, Finland)  
*Shape coexistence in neutron-deficient  $^{190}\text{Pb}$*

11:50 | 12:20 | Katarzyna Hadyńska-Klęk (University of Warsaw, Poland)  
*Signatures of shape coexistence in  $N=Z$  nuclei – studies of nuclear deformation in the vicinity of  $^{40}\text{Ca}$  and  $^{56}\text{Ni}$*

12:30 Lunch

Session 3

Chairman: Katarzyna Wrzosek-Lipska

15:00 | 15:30 | Magda Zielińska (CEA Saclay, France)  
*Exploring quadrupole and octupole collectivity in  $^{106}\text{Cd}$  via unsafe Coulomb excitation*

15:30 | 16:00 | Filip Kondev (Argonne National Laboratory, USA)  
*Decay spectroscopy of deformed, neutron-rich nuclei at ANL*

16:00 | 16:30 | Konstantin Mastakov (University of Guelph, Canada)  
*Beta-decay study of the shape coexistence in  $^{98}\text{Zr}$*

Coffee Break

Session 4

Chairman: Andrew E. Stuchbery

16:50 | 17:20 | Tuomas Grahn (University of Jyväskylä, Finland)  
*Lifetime measurements of neutron-deficient odd- $A$  W and Os nuclei*

17:20 | 17:50 | Franziskus von Spee (University of Cologne, Germany)  
*Investigation of shape coexistence via lifetime measurements*

19:00 Dinner

Tuesday

May 16



## 7:30–9:00 Breakfast

Session 5

Chairman: David Jenkins

09:00	09:30	Costel M. Petrache (IJClab, University Paris-Saclay and IN2P3/CNRS) <i>Wobbling and oblate rotation</i>
09:30	10:00	Piotr Bednarczyk (IFJ PAN Krakow, Poland) <i>Experimental research projects on high spin states and exotic shapes in medium-heavy nuclei</i>
10:00	10:30	Maria Kmiecik (IFJ PAN Krakow, Poland) <i>Links between the compound nucleus' shape and the deformation of the residual nuclei studied by the GDR gamma-decay</i>

## Coffee Break

Session 6

Chairman: Paul Garrett

10:50	11:20	Andrew E. Stuchbery (Australian National University, Australia) <i>Weakly collective nuclei – a Moments Perspective</i>
11:20	11:50	Timothy J. Gray (Oak Ridge National Laboratory, USA) <i>Suppressed electric quadrupole collectivity in <math>^{49}\text{Ti}</math> relative to semi-magic <math>^{50}\text{Ti}</math></i>
11:50	12:20	Adam Maj (IFJ PAN Krakow, Poland) <i>Nuclear collective vibrational modes studies at the Proton therapy center CCB in Krakow</i>

## 12:30 Lunch

Session 7

Chairman: Beyhan Bastin

15:00	15:30	Ágota Koszorus (KU Leuven, Belgium) <i>New insight into the nuclear structure at shell closures from laser spectroscopy</i>
15:30	16:00	Mikael Reponen (University of Jyväskylä, Finland) <i>Probing the most exotic silver isotopes</i>
16:00	16:30	Kalle Auranen (University of Jyväskylä, Finland) <i>Probing proton emitters using the MARA separator</i>

## Coffee Break

Session 8

Chairman: Katarzyna Hadyńska-Klęk

16:50	17:20	Louis-Alexandre Lalanne (CERN, Switzerland) <i>Study of <math>^{36}\text{Ca}</math>: Colossal Mirror Energy Differences, magicity at <math>N = 16</math> and the <math>^{35}\text{K}(p,\gamma)^{36}\text{Ca}</math> reaction for astrophysics</i>
17:20	17:50	Premaditya Chhetri (KU Leuven, Belgium) <i>First observation of the radiative decay of <math>^{219}\text{Th}</math> low-lying isomer</i>

## 19:00 Dinner

Wednesday

May 17



7:30–9:00 Breakfast

Session 9

Chairman: Costel M. Petrache

09:00	09:30	Tibor Kibédi (Australian National University, Australia) <i>E0 transitions and shape coexistence in light nuclei</i>
09:30	10:00	Pete Jones (iThemba Labs, South Africa) <i>Monopole decays and studies at iThemba LABS</i>
10:00	10:30	Desislava Kalaydjieva (CEA Saclay, France) <i>Multiple shape coexistence in <math>^{100}\text{Zr}</math> from a beta-decay study with GRIFFIN</i>

Coffee Break

Session 10

Chairman: Adam Maj

10:50	11:20	David Jenkins (University of York, UK) <i>Stars, Shapes and Clusters</i>
11:20	11:50	Pawel J. Napiorkowski (University of Warsaw, Poland) <i>The Heavy Ion Laboratory at the University of Warsaw - an European facility in the centre of Poland</i>
11:50	12:20	Michail Athanasakis-Kaklamanakis (CERN, Switzerland) <i>Research opportunities with laser spectroscopy of radioactive molecules</i>

12:30 Lunch

15:30 Wine tasting in Modra

19:00 Dinner

Thursday

May 18



## 7:30–9:00 Breakfast

Session 11

Chairman: Filip Kondev

09:30	10:00	Beyhan Bastin (GANIL, France) <i>Search for a light Dark Boson with the new JEDI project</i>
10:00	10:30	Martin Veselský (IEAP CTU Prague, Czech Republic) <i>Is the X17 boson mediator of nuclear force?</i>

## Coffee Break

Session 12

Chairman: Martin Venhart

10:50	11:20	Franco Galtarossa (INFN Sezione di Padova, Italy) <i>Highlights from the AGATA campaign at LNL</i>
11:20	11:50	Matúš Sedlák (INFN LNL, Italy) <i>CTADIR – Cryogenic target for direct reactions</i>
11:50	12:20	Matúš Balogh (INFN LNL, Italy) <i>New collective structures in <math>^{179}\text{Au}</math></i>

## 12:30 Lunch

Session 13

Chairman: John L. Wood

15:00	15:30	Martin Venhart (IoP SAS, Slovakia) <i>Isomerism in Au isotopes</i>
15:30	16:00	Anton Repko (IoP SAS, Slovakia) <i>Curious collective modes in nuclei - predictions by QRPA and possible footprints</i>
16:00	16:20	Vladislav Matoušek (IoP SAS, Slovakia) <i>Deconvolution methods and their use to improve resolution in gamma-ray spectra</i>

## Coffee Break

Session 14

Chairman: Martin Venhart

16:40	17:00	Andrej Špaček (IoP SAS, Slovakia) <i>Alpha-decay fine structure in <math>^{179}\text{Hg}</math> and <math>^{177}\text{Au}</math></i>
17:00	17:20	Monika Bírová (IoP SAS, Slovakia) <i>Experimental research program in the Tandetron laboratory of the IoP SAS</i>
17:20	17:40	Tatiana Grečňárová (IoP SAS, Slovakia) <i>M20 experiment at JYFL</i>

## 19:00 Conference Dinner

Friday

May 19



7:30–9:00 Breakfast

Session 15

Chairman: Andrej Herzáň

09:00	09:40	<i>Stergiani Marina Vogiatzi (Paul Scherrer Institute, Switzerland)</i>
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*Muonic atom spectroscopy with radioactive targets*

09:40	10:10	<i>Iryna Timchenko (IoP SAS, Slovakia)</i>
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*Study of multiparticle photonuclear reactions at energy  $E_{\gamma, \max}$  up to 100MeV in KIPT*

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Coffee Break

10:30–11:30 Open discussion

11:30 Closing remarks (Andrej Herzáň, Martin Venhart)

12:00 Lunch

~13:00 Departure from Častá-Papiernička