Award of EPS Lise Meitner Prize 2020

Eckhard Elsen

Director Research and Computing

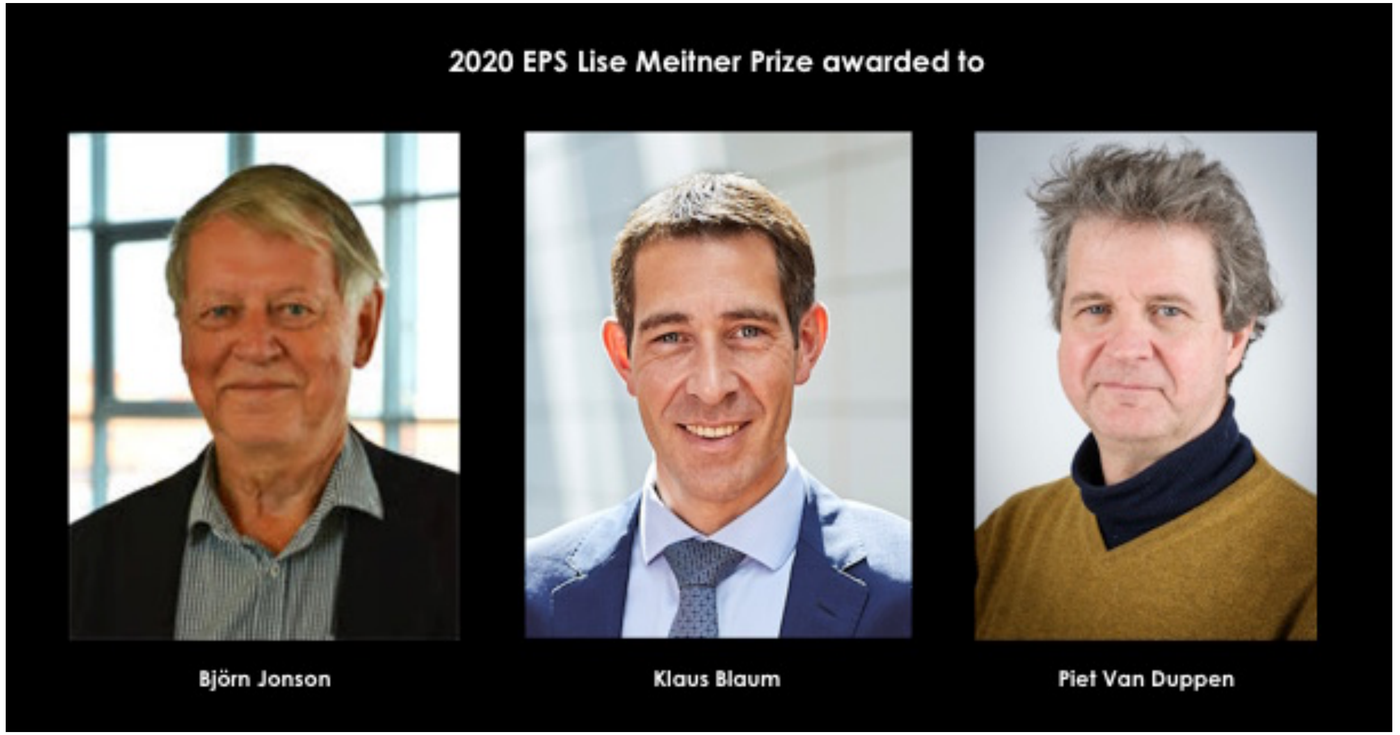
The Nuclear Physics Division of the EPS awards the prestigious Lise Meitner Prize every alternate year to one or several individuals for outstanding work in the fields of experimental, theoretical or applied nuclear science.

EPS Lise Meitner Prizes over the years

- 2020 …
- 2018 Peter Ring, Peter Schuck
- 2016 Ulf G. Meissner
- 2014 Johanna Stachel, Peter Braun-Munzinger, Paolo Giubellino, Jürgen Schukraft
- 2012 Karlheinz Langanke, Friedrich-Karl Thielemann
- 2010 Juha Äystö
- 2008 Reinhard Stock, Walter Greiner
- 2006 Heinz-Jürgen Kluge, David M. Brink
- 2004 Bent Herskind, Peter J. Twin
- 2002 Phil Elliott, Francesco Iachello
- 2000 Peter Armbruster, Gottfried Münzenberg, Yuri Oganessian

A broad range of theoretical, experimental and technology achievements.

2020



Congratulations to the Prize winners
and many thanks to the ISOLDE Collaboration

EPS Lise Meitner Prize 2020

- The Nuclear Physics Board of the European Physical Society has awarded the 2020 Lise Meitner Prize to
    - Klaus Blaum (Max-Planck-Institute for Nuclear Physics, Heidelberg, Germany),
    - Björn Jonson (Chalmers University of Technology, Gothenburg, Sweden) and
    - Piet Van Duppen (KU Leuven, Belgium)
- "for their development and application of on-line instrumentation and techniques, for their precise and systematic investigation of properties of nuclei far from stability, and for shaping the scientific program at the online isotope separator facility ISOLDE, CERN."
- The Lise Meitner Prize 2020 for Björn Jonson, Piet Van Duppen and Klaus Blaum honours three scientists representing different experimental techniques and three generations of researchers who have made outstanding contributions to the field of nuclear physics, both scientifically, technologically and in terms of science administration. Björn Jonson's name stands for the study of the lightest exotic nuclei, namely halo nuclei, whose surprisingly large matter radius he was the first (together with the late Gregers Hansen) to explain. Piet Van Duppen pushed the production and investigation of post-accelerated radioactive beams with REX-ISOLDE, for which he laid the foundation with his early work in Louvain-la-Neuve. Finally, the scientific work of Klaus Blaum is focused on the high-precision determination of nuclear ground state properties with laser and mass spectroscopic methods and the development of new techniques in this field.
- Klaus Blaum, Björn Jonson and Piet Van Duppen have played a decisive role in turning a small-scale nuclear-physics experiment at the European Nuclear Research Centre CERN, which focuses mainly on high-energy experiments, into a facility that enjoys high recognition and respect in the CERN environment and has been the undisputed world leader in ISOL facilities for nuclear structure investigations for 50 years. All three have contributed to this outstanding success at CERN in a variety of ways and functions: as ISOLDE Physics Group Leader, chairman of the ISOLDE Collaboration Committee, member or chairman of the CERN scientific advisory committees, of the CERN Research Board and the Scientific Policy Committee, and as organizers of international conferences and schools in the field of nuclei far from stability.