

# Pending proposals 11.2.2026

| Cat. | No.          | Title                                                                                                                                                    | Spokesperson(s)                                    | Remaining Beam Time | Submission Deadline |
|------|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|---------------------|---------------------|
| A    | 106          | Systematic characterization of ion-beam induced radioluminescence of copper-halide perovskite films and detector assemblies                              | Mátyás Hundyadi                                    | 3                   | 15/03/2023          |
|      | 107          | Calibration of Relativistic Electron and Proton Experiment ESA HENON/REPE                                                                                | P. Oleynik                                         | 2                   | 15/09/2024          |
|      | 108          | ESA Athena X-IFU telescope SQUID radiation hardness                                                                                                      | Eija Tuominen,<br>Erik Jellyman                    | 2                   | 15/03/2025          |
|      | <b>Total</b> |                                                                                                                                                          |                                                    | <b>7</b>            |                     |
| I    | 303          | Continued search for very low Q-value beta+- and electron capture decays with JYFLTRAP                                                                   | T. Eronen, Z. Ge                                   | 8                   | 15/03/2023          |
|      | 308          | Commissioning of the SEASON detector: decay properties of neutron-deficient actinides produced by proton-induced fusion-evaporation on <sup>232</sup> Th | Damien Thisse,<br>Marine Vandebrouck               | 7                   | 15/09/2023          |
|      | 309          | Precision electron-capture Q-value measurement of the superallowed $\beta$ -emitter <sup>26</sup> mAl                                                    | Ruben de Groote,<br>Tommi Eronen                   | 3                   | 15/09/2023          |
|      | 310          | Charge radii of short-lived multi-quasiparticle isomers of bismuth isotopes using collinear resonance ionization spectroscopy                            | Ruben de Groote                                    | 6                   | 15/09/2023          |
|      | 311          | Collinear laser spectroscopy of cobalt isotopes                                                                                                          | Agota Koszorus,<br>Bradley Cheal                   | 5                   | 15/03/2024          |
|      | 313          | Mass measurements and yield determination of <sup>234</sup> - <sup>238</sup> Am and excitation energy of <sup>236</sup> mAm                              | Emmanuel Reyherme, Iain Moore, Tommi Eronen        | 7                   | 15/03/2024          |
|      | 314          | Decay properties of the isomer and ground states in <sup>76</sup> Cu                                                                                     | Andres Illana,<br>Jaime Benito,<br>Bruno Olaizola  | 5                   | 15/03/2024          |
|      | 316          | Trap-assisted decay spectroscopy of very neutron-rich Rh and Pd isotopes around A = 110 at IGISOL.                                                       | Jan Kurpeta                                        | 2                   | 15/03/2024          |
|      | 318          | Sub-nanosecond half-life measurements in <sup>113</sup> , <sup>115</sup> Ag                                                                              | Stefan Lalkovski                                   | 8                   | 15/03/2024          |
|      | 324          | Collinear laser spectroscopy of iron isotopes                                                                                                            | P. Campbell, A. Koszorus                           | 2                   | 15/09/2024          |
|      | 327          | Mass measurement of the exotic N=Z nuclide <sup>78</sup> Y at IGISOL                                                                                     | Zhuang Ge , Brian Kootte                           | 7                   | 15/03/2025          |
|      | 328          | Mass measurement of the N = Z isomer <sup>70</sup> mBr with JYFLTRAP                                                                                     | Zhuang Ge, Brian Kootte, George, Zimba             | 5                   | 15/03/2025          |
|      | 330          | Optical and $\beta$ -decay spectroscopy studies in the <sup>105</sup> Mo region at IGISOL.                                                               | Jan Kurpeta ,<br>Bradley Cheal                     | 5                   | 15/03/2025          |
|      | 331          | Isomeric yield ratios from alpha-induced fission at symmetry and the low mass region                                                                     | Stephan Pomp,<br>Andreas Solders,<br>Anu Kankainen | 7                   | 15/03/2025          |
|      | 333          | Mass Measurements of Proton-Unbound <sup>152</sup> – <sup>156</sup> Lu Isotopes at IGISOL                                                                | B. Kootte                                          | 7                   | 15/09/2025          |
|      | 334          | Precision $\beta$ - Q value measurements of <sup>151</sup> Sm and <sup>171</sup> Tm for cosmic neutrino background studies.                              | Prince Shaheen Parvez, Tommi Eronen                | 4                   | 15/09/2025          |
|      | 335          | Mass spectrometry of <sup>94</sup> Ag                                                                                                                    | V. Virtanen, M. Reponen                            | 13                  | 15/09/2025          |

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|-----------|--------------|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|---------------------|---------------------|
|           | 336          | Addendum: Laser spectroscopy of <sup>94</sup> Ag                                                                         | Mikael Reponen,<br>Momo Mukai                                  | 10                  | 15/09/2025          |
|           | 337          | Release properties of strontium from the inductively heated hot cavity catcher laser ion source                          | Mikael Reponen,<br>Ruben de Groote                             | 3                   | 15/09/2025          |
|           | 338          | Mass measurements of neutron-rich barium isotopes for the r-process and probing the evolution of nuclear structure       | Simon Rausch,<br>Anu Kankainen                                 | 5                   | 15/09/2025          |
|           | 339          | Total Absorption Gamma-ray Spectroscopy Measurements to improve the Accuracy of Reactor Antineutrino Spectra Predictions | Magali Estienne,<br>Amanda Porta,<br>Alejandro Algore          | 10                  | 15/09/2025          |
|           | 340          | Collinear Laser Spectroscopy of Vanadium (Z=23) Isotopes                                                                 | Angelos<br>Karadimas                                           | 8                   | 15/09/2025          |
|           | 341          | MORA experiment 2nd addendum - Trapped and Laser Oriented Ions to Search for CP violation in Nuclear Beta Decay          | Pierre DELAHAYE                                                | 25                  | 15/09/2025          |
|           | 342          | Precision Q-value measurements of the $\beta$ -unstable primordial nuclide <sup>48</sup> Ca with JYFLTRAP                | Zhugan Ge,<br>Tommi Eronen                                     | 4                   | 15/09/2025          |
|           | <b>Total</b> |                                                                                                                          |                                                                | <b>166</b>          |                     |
| <b>JM</b> | 57           | Highly Deformed Bands in Europium Isotopes and Identification of New Excited States                                      | C. Sullivan, D.<br>Joss, E. Paul                               | 14                  | 15/09/2024          |
|           | 61           | Probing isopin-breaking shell-model interactions by core-excited states above <sup>53</sup> mCo and <sup>53</sup> mFe    | Dirk Rudolph,<br>Panu<br>Ruotsalainen,<br>Kseniia<br>Rezynkina | 10                  | 15/03/2025          |
|           | 64           | Systematic investigation of Auger electron emission multiplicities for Auger Electron Therapy                            | Jacob Heery, Jack<br>Henderson, Panu<br>Ruotsalainen           | 11                  | 15/09/2025          |
|           | <b>Total</b> |                                                                                                                          |                                                                | <b>35</b>           |                     |
| <b>JR</b> | 169          | Onset of deformation in light Ra isotopes - <sup>204</sup> Ra                                                            | J. Henderson, P.<br>Rahkila, S.<br>Freeman                     | 10                  | 15/09/2024          |
|           | 171          | Study of B <sub>4/2</sub> anomaly in the neutron-deficient <sup>165</sup> Os nucleus                                     | Irene Zanon, Bo<br>Cederwall, Maria<br>Doncel                  | 10                  | 15/03/2025          |
|           | 173          | Study of the collectivity in neutron deficient Pt isotopes: The case of <sup>170</sup> Pt                                | Andres Illana<br>Sison, Tuomas<br>Grah                         | 12                  | 15/09/2025          |
|           | 174          | Evolution of octupole correlations in <sup>226</sup> U                                                                   | James Keatings,<br>John F Smith,<br>Paul Greenlees             | 14                  | 15/09/2025          |
|           | <b>Total</b> |                                                                                                                          |                                                                | <b>46</b>           |                     |
| <b>M</b>  | 28           | Fine structure in proton emission from highly deformed nuclei                                                            | Andy Briscoe,<br>Robert Page, Juha<br>Uusitalo                 | 14                  | 15/03/2024          |
|           | 29           | Exploring the role of neutrons in proton emission from odd-odd nuclei                                                    | Adam McCarter,<br>Robert Page                                  | 14                  | 15/03/2024          |
|           | <b>Total</b> |                                                                                                                          |                                                                | <b>28</b>           |                     |

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| R            | 70           | Multi-nucleon transfer and quasi-fission study using gas-filled recoil separator RITU.                           | Wouter Niels Landsman, Jennifer Cipagauta Mora | 14                  | 15/03/2025          |
|              | 72           | Exploring alternative production methods of the medical isotope At-211                                           | Adam McCarter, Julia Even                      | 3                   | 15/09/2025          |
|              | 73           | Observing Nuclear Excitation by Electron Capture - Charge State Measurements of <sup>83</sup> Kr                 | John Fuller, David Jenkins, Jack Henderson     | 5                   | 15/09/2025          |
|              | <b>Total</b> |                                                                                                                  |                                                | <b>22</b>           |                     |
| S            | 31           | Search for excited 0+ states and E0 transitions in <sup>194</sup> Po nucleus using the SAGE spectrometer at MARA | Janne Pakarinen, Andrew Briscoe                | 10                  | 15/09/2025          |
|              | <b>Total</b> |                                                                                                                  |                                                | <b>10</b>           |                     |
| <b>Total</b> |              |                                                                                                                  |                                                | <b>314</b>          |                     |