

## Posters 1

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- 2 Thomas Battard **Electron EDM measurement with cesium in argon matrix**
- 3 Hendrik Bekker **Probing the axion gradient-coupling with nuclear magnetic resonance spectroscopy**
- 4 Olesia Bezrodnova **LIONTRAP: Towards High-Precision Mass Measurements Of The Helium-3 And Tritium Nuclei**
- 5 Matthew Bohman **Precision Measurements with Trapped Ion Atomic Clocks at the Lifetime and Systematic Limit**
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- 7 Skyler Degenkolb **New tools for preparing, preserving, and detecting polarized spins**
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- 11 Menno Door **High-precision mass-ratio measurements of ytterbium isotopes and absolute mass measurement of <sup>20</sup>Ne with the Penning-trap mass spectrometer Pentatrap**

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| 12 | Yurii Dumin<br>(online) | New Physics from the Low-Multipole Part of the CMB Spectrum   |
| 13 | Pavel Fadeev            | Shifting lines: nuclear & atomic transitions in search for new bosons and variations in fundamental constants                                 |
| 14 | Konstantin Gaul         | Selecting atoms and molecules tailored for robust bounds on fundamental sources of P,T-violation in a global analysis                         |
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| 16 | Mehedi Hasan            | Observation of Anisotropic Zitterbewegung in Non-Abelian Gauge Field  |
| 17 | Tobias Heldt            | Towards intra-cavity nonlinear laser excitation of the thorium-229 isomeric state   |
| 18 | Feodor Karpeshin        | Physics of laser-assisted nuclear processes as the base for creation of the nuclear clock   |
| 19 | Carina Killian          | Towards the first demonstration of gravitational quantum states of atoms with a cryogenic hydrogen beam                                       |
| 20 | Charlotte König         | Hyperfine Spectroscopy of Single Molecular Hydrogen Ions in a Penning Trap at Alphatrap   |
| 21 | Kathrin Kromer          | Direct high precision measurement of the $Q$ -value of the electron capture in $^{163}\text{Ho}$ and metastable states in highly charged ions |