ID de Contribution: **64** Type: **Poster**

Nuclear structure of the neutron-rich silver isotopes by collinear laser spectroscopy.

lundi 9 mai 2016 15:30 (1 heure)

The hyperfine structure splitting (hfs) and isotope shifts (IS) in the atomic transitions 4d10 5s 2S1/2 −4d10 5p 2P3/2 will be measured for the isotopes 111-120Ag. The technique of choice will be collinear laser spectroscopy. A continuous-wave laser beam will be overlapped with the radioactive beam and at a precise set of laser frequencies the atoms fluoresce in the transitions of their hyperfine structure. A code to adjust the data was compiled and tested with data obtained in previous experiments. Nuclear spins, magnetic dipole, electric quadrupole moments and changes in mean square charge radii have been determined in good agreement with the literature values.

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Classification de Session: Poster session

Classification de thématique: Nuclear Physics