



Contribution ID: 9

Type: **not specified**

## Nuclear Spectroscopy with Stable and Radioactive Beams at ALTO

*Monday, 27 June 2016 17:40 (30 minutes)*

ALTO is a facility that provides a variety of stable and radioactive beams for studies in the domain of nuclear structure, astrophysics, astrochemistry, atomic physics, biology, nano-technology, etc. Stable light- and heavy-ion beams as well as clusters are produced using a 15MV Tandem accelerator. The low-energy radioactive beams are produced using the photo-fission of uranium, induced by the bremsstrahlung of a 50 MeV impinging on an UCx target.

The gamma-ray spectroscopy has always been one of the main driving horses of the facility with a number of Ge-detectors arrays utilized. Results from the ORGAM and MINORCA campaigns will be presented and the plans for the use of the PARIS and the nu-ball spectrometers in near future will be discussed.

Presently a number of developments at ALTO are being pursued in the direction of nuclear-moment and transition-probability investigations. The ideas and the possibilities for these studies with both stable and radioactive beams at ALTO or at other RIB facilities will be presented.

**Primary author:** Dr GEORGIEV, Georgi (CSNSM)

**Presenter:** Dr GEORGIEV, Georgi (CSNSM)

**Session Classification:** Nuclear Structure with Radioactive beams