Contribution ID: **44** Type: **poster**

Micropixel Detector Timepix For Measuring And Imaging Radioactive Ion Beams

We have carried out the first studies of TimePix - hybrid pixel detector installed at the focal plane of a laser mass-spectrometer operating with a wide range of ions accelerated from 3 to 25 keV. The results of the first test of the TimePix as a metal detector of low energy ions in a focal plane of the laser mass-spectrometer are presented too. The TimePix detector provides two-dimensional imaging of ion beams and their charge/mass distribution allowing for tuning mass spectrometer 'on-line'(focusing, alignment etc.). The 2D-data allow also to improve mass resolution by projecting mass-data from isotope's loci. The possibility to apply the TimePix detector for Radioactive Ion Beam diagnostics is discussed.

Would you prefer your contribution to be a poster presentation? (please answer yes or no)

yes

Are you a student, postdoc or an attendee from an "emerging"country and would like to apply for financial support?

I am a PhD student and I would like to apply for financial support

Primary author: Mr CHAUS, Andrii (Institute for Nuclear Research NASU (Ukraine))

Co-authors: Mr KOVALCHUK, Oleksii (Institute for Nuclear Research NASU (Ukraine)); Prof. PUGATCH, Valery (Institute for Nuclear Research NASU)

Presenter: Mr CHAUS, Andrii (Institute for Nuclear Research NASU (Ukraine))

Track Classification: Production and manipulation of RIB