



Contribution ID: 41

Type: poster with financial aid

Microstrip Metal Detector For Radioactive Ion Beam Diagnostics

Microstrip Metal Detectors (MMD) are discussed as detectors of radioactive ions, charged particles and X-ray beams. A nearly transparent sensor (~1 micron) makes MMD the thinnest detector ever made for the particles registration. Other advantages of the MMD such as high radiation tolerance (10-100 MGy); perfect spatial resolution (5 –25 microns); unique, well advanced production technology are discussed too.

MMD applications:

- RIB profile monitoring
- Detectors at the focal plane of mass-spectrometers and electron microscopes
- Imaging sensors for X-ray and charged particle applications
- Precise dose distribution measurements for micro-biology, medicine etc.

Currently available Microstrip Metal Detector (a row of 1024 nickel strips (2 micron thick, 40 micron width, 60 micron pitch) read-out via thin polyimide cable by 128-channel ASIC preamplifiers VA_SCM3) is characterized as a device for the RIB diagnostics.

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

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Track Classification: Production and manipulation of RIB