

19 Gennaio 2010, Ore 15.00, Aula Ettore Majorana, Dip.to di Fisica, Università di Messina,  
Ctr. Papardo 31, S. Agata, Messina

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Titolo del Seminario:

**“The Thomson Parabola Spectrometer as laser ion beam analyzer”**

**Abstract**

The Thomson Parabola Spectrometer (TPS) provides information of energy, momentum, wide range of charge-to-mass ratio etc., simultaneously on the bases of a single shot (if a laser beam is being analyzed). The apparatus is comprised of three elements: an aperture system, a deflection sector and an image conversion stage which produces an optical particle image. The analyzing sector consists of a magnet producing nearly homogeneous magnetic field and next to it electrodes producing electrostatic electric field. Both fields are in parallel and deviate the beam creating a parabola image. In this report we discuss details of the TPS design used in a laser beam research.