Contribution ID: **1** Type: **Posters**

A magnetic spectrometer for laser plasma acceleration experiments

Tuesday, 29 November 2011 14:50 (1 minute)

The design, construction and commissioning of the magnetic spectrometer for the self-injection experiments with the Flame laser at LNF has demostrated extremely challenging: the characteristics of the detector are highly non conventional for laser-plasma physicists (high energy electrons), accelerator physicists (large angular divergence, energy spread) and particle phycisists (huge number of electrons to measure and very large electronic noise).

This talk presents the design considerations and the difficulties encountered in building such a detector, together with the adopted solutions and the results of the laser-plasma interaction shots.

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Session Classification: Poster Session: presentation of posters