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Conceptual design of electron beam diagnostics for high brightness plasma accelerator

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A design study of the diagnostics of a high brightness linac, based on X-band structures, and a plasma accelerator stage, has been delivered in the framework of the EuSparc project. In this paper, we present a conceptual design of the proposed diagnostics, using state of the art systems and new and under development devices.

Primary author: CIANCHI, Alessandro (ROMA2)

Co-authors: Prof. MOSTACCI, Andrea (Sapienza); ALESINI, David (LNF); CHIADRONI, Enrica (LNF); BISESTO, Fabrizio Giuseppe (LNF); FERRARIO, Massimo (LNF); CASTELLANO, Michele (LNF); Dr POMPILI, Riccardo (LNF); SHPAKOV, Vladimir (LNF)

Presenter: CIANCHI, Alessandro (ROMA2)

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