FAKULTÄT für PHYSIK
LUDWIG-MAXIMILIANS-UNIVERSITÄT
MÜNCHEN/GARCHING

PHYSIK-DEPARTMENT
TECHNISCHE UNIVERSITÄT MÜNCHEN
MÜNCHEN/GARCHING

MLL-KOLLOQUIUM

Donnerstag, 04.02.2016, 16^{15} Uhr

TUM, Physik I, Hörsaal HS2
Treffen zum gemeinsamen Kaffee 16 Uhr

Dr. Enrica Chiadroni

(INFN Laboratori Nazionali di Frascati, Italy)

Plasma-based acceleration experiments at the SPARC_LAB test facility

The current goal of the world wide R&D programs is to demonstrate the stable and repeatable acceleration of high brightness electron beams (HBEBs) in plasma structures. The scheme proposed at the SPARC_LAB test facility is based on the external injection of electrons in the plasma. Two different mechanisms are proposed: an external injection laser wakefield acceleration (LWFA), by combining the multi-hundreds TW power laser (Flame) and the HBEB from the photo-injector, and a particle-driven resonant plasma wakefield acceleration (rPWFA), by using a train of high brightness electron bunches.

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