

Channeling 2018



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Advanced Instrumentation for Laser-Driven Acceleration Experiments

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In laser-driven ion-acceleration experiments the interaction of the ultra-intense laser beam (in the order of 10^{20} W/cm²) with the solid target produces an extremely intense emission of radiation with a broad spectrum. The occurrence of such an emission, sometimes named EMP-electromagnetic pulse-, traditionally prevents the implementation of active devices for ion beam diagnostics in the interaction chamber or even in the close proximity. The presentation reports on the progress in the advanced instrumentation developed for the L3IA experiment.

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