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Metal strips and diamond detectors for diagnostics in ultra-intense laser facilities for nuclear fusion applications

The research on Inertial Confinement Fusion (ICF) is mainly developed using high power laser facilities. In this context the diagnostics of particle flows is a delicate issue, due to the fast timescales and to the strong electromagnetic and radiative contributions. The discrimination of the different particles emitted by the plasma is therefore not trivial, and it requires the use of several diagnostic techniques. In this work we discuss the use of metal strips and diamond detectors to achieve a time resolved diagnostics in this type of experiments.

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