

Tera-Days: Attività INFN e prospettive per la radiazione THz e le sue applicazioni



SAPIENZA
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The SPARC_LAB THz Source

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High peak power THz radiation with tunable spectral bandwidth is produced at SPARC_LAB as coherent radiation (CR) from relativistic, short (~ 100 fs) electron bunches. The characterization of the CR spectrum serves both as powerful longitudinal diagnostics of electron bunches that drive Free-Electron Lasers and plasma-based accelerators, and as intense source of THz radiation for studying ultra-fast and non-linear phenomena. The generation techniques of the SPARC_LAB THz source and its application, together with future perspectives, will be presented.

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Session Classification: THz sources and new acceleration techniques