

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



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# High-Intensity Terahertz Sources for New Physics at Low-Energy

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Terahertz (THz) and Sub-THz High-Intensity Radiation ( $1 \text{ THz} = 33 \text{ cm}^{-1} = 4 \text{ meV} = 300 \text{ microns}$ ), represents a new frontier in low-energy physics with applications ranging from Dirac electrons in graphene and 2-Dimensional exotic electronic systems, astrophysics, security and biomedical and cultural heritage imaging.

In this talk I will review the existing and new THz and sub-THz sources, their main characteristics and some experiments at the border between high-energy physics and condensed matter.

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**Session Classification:** THz sources and new acceleration techniques