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## THz acceleration and phase space manipulation: ponderomotive interactive vs slow wave structure

*Wednesday, 18 September 2019 19:00 (1 hour)*

We discuss the use of high power laser-generated THz waves for acceleration and electron beam phase space manipulation. These find application both as a compact alternative for radiofrequency-based accelerators as well for high frequency manipulation of electron beam longitudinal phase spaces and beam compression. We'll present our different approaches to reach next goal in THz acceleration which is to demonstrate MeV energy gain from laser-driven THz waves.

**Primary author:** MUSUMECI, Pietro (UCLA)

**Presenter:** MUSUMECI, Pietro (UCLA)

**Session Classification:** Cheese and Wine Poster Session 2

**Track Classification:** WG3 - Electron beams from electromagnetic structures, including dielectric and laser-driven structures