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First preliminary results from the new sub-PetaWatt FLAME facility.

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A new era of laser based plasma accelerators is emerging following the commissioning of many high power laser facilities around the world. Extremely short laser pulses with energy of few or multi-joule level are available with these newly built facilities.

Preliminary results obtained last year at LNF with the sub-PetaWatt FLAME facility during the first phase of the self-injection test experiment (SITE) up to Joule level will be discussed with an overview on laser beam quality and effects on accelerated electrons beam. Different regimes will be shown to be indicated for various applications from high-energy physic to radio-biological and medical applications.

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