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Applications and Approaches of Advanced Gamma ray Compton Sources

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A large effort is being pursued world-wide to advance the performances of Gamma ray Sources, in order to improve the spectral density of photon beams in the 1-20 MeV range, where nuclear photonics and nuclear physics science and applications are performed. The enabling technology is Compton back-scattering of high power laser beams by high brightness GeV-class electron beams. One of the most advanced projects in this field is the EuroGammaS machine for the ELI-NP facility.

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