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27-Electron-Positron pair generation in spatiotemporal shaped pulses

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Positron sources are important both for fundamental science and industrial applications. Generating and accelerating positrons to relativistic energies in a controlled way is a challenge due to many factors (e.g. annihilation, radiation reaction, defocusing, etc.). We are proposing a project that takes advantage of the novel ways of shaping intense laser light to control the positron creation in the laser-electron beam or laser-photon beam scattering.

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