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Physics Considerations for 10-30 TeV e^+e^- , $\gamma\gamma$, and $\mu^+\mu^-$ Colliders

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After the program of Higgs boson physics at a linear collider is completed, we expect that the long, straight tunnel can be used with advanced acceleration methods, such as plasma wakefield, to create a higher-energy collider in the 10's of TeV CM region. This might be an e^+e^- or a $\gamma\gamma$ collider. (Circular) muon colliders are also discussed for this energy regime. I will discuss the physics goals of these machines, the luminosity requirements, and the trade-offs among the $\mu^+\mu^-$, e^+e^- , and $\gamma\gamma$ options.

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Primary author: PESKIN, Michael

Presenter: PESKIN, Michael

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