

Laser-based Polarized Positron Source for ILC

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A scheme to produce polarized positrons at the International Linear Collider (ILC) will be presented. The scheme is based on laser-Compton scattering. Polarized gamma-rays are created by Compton scattering of laser light off a few GeV electron beam. Polarized positrons are produced by pair creation from the gamma-rays. I present both the concept of the source for ILC and experimental activities at KEK.