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Review of Laser Backscattering as an Approach for Electron Beam Energy Measurement (15' + 5')

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Direct measurement of energy spectrum of backscattered laser photons allows to determine the average energy of beam electrons. With HPGe detector the mean energy could be measured with relative accuracy about 30ppm in absolute scale for beam energies below 2 GeV. This report includes an overview of beam energy measurement systems for VEPP-4M, BEPC-II and VEPP-2000 colliders. Some ideas about how to extend the capabilities of the approach to higher beam energies will be presented on the example of future Higgs factories.

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