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Conversion Target for Compton Sources of Polarized Positrons

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Compton sources provide wider and less intensive beams of polarized gammas as compared with the undulator-based sources. Due to these features, the Compton sources enable to employ the rod targets which are more effective than the flat ones. The rod target with focusing of the positron bunches by the electric current is proposed and studied. Efficiency of conversion and the parameters of the positron bunches are presented.

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