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Photon Collider beam simulation with CAIN

Sunday, 12 March 2006 10:00 (20 minutes)

CAIN simulation program was used to study the outgoing beam profile for the Photon Collider at ILC. The main aim of the analysis was to verify the feasibility of Photon Collider running with 20 mrad electron beam crossing angle. The main problem is the distorted electron beam, which has to be removed from interaction region. It was shown that with new design of final dipol it should be possible to avoid large energy losses
at the face of the magnet.

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