The two-photon process for particle production in colliding beam experiments

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CONTRIBUTIONS C2-123

The two-photon process for particle production
in colliding beam experiments (*)

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Abstract. — A comparison is made, for various
two-photon processes (ee → eep0, eep+ μ−, eep+ π−),
between an exact calculation on the one hand and
two alternative forms of the equivalent photon
approximation (namely, the Low formula and the
Dalitz-Yennie formula) on the other hand. Angular
distributions of the particles produced are con-
sidered, as well as total cross sections.

(c) In the region $s \gtrsim q_1^2 + q_2^2/m_0^2$ these combinations
are $s/q_1^2$ and $q_2^2/m_0^2$.

At $q_2^2/m_0^2 \gg 1$ the dependence on only argument $G$.

The two-photon process for particle production
at high energies (*)

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Abstract. — The literature of the past three years
on the two-photon process for particle production
c^+ + c^- → c^+ + γ^* + c^- + γ^* → c^+ + c^- + γ^*