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Phase space generator for the initial state radiation in the $P P$ interaction ESSMA REDOUANE SALAH, CHRISTIAN BAUER, MARJORIE SHAPIRO, Lawrence Berkeley Natl Lab — An efficient phase space integration is important for most calculations for collider experiments. Using the Altarelli-Parisi splitting functions as the underlying probability for a splitting, we developed a phase space generator that distribute phase space points according to the singular limit of QCD.

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