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Photon-induced processes at high energy hadron colliders

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I discuss the possibilities for using the LHC as a photon colliding machine. The photon parton density is quite precisely known and I consider the implications for the LHC phenomenology. In addition, the colour singlet nature of the photon means that it can readily lead to exclusive or semi-exclusive events, with limited or no extra particle production in the final state. I will show how such exclusive processes, in particular in combination with proton tagging measurements, provide a well understood environment in which to test the Standard Model and search for the BSM physics. I shall focus on a few topical examples.

Summary

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