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Dijet Photoproduction in POWHEG-Box

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Photoproduction processes have gained a renewed interest following the approval of the EIC, making their implementation in Monte Carlo event generators highly desirable. I will present recent efforts to develop a POWHEG-BOX extension simulating dijet production from direct and resolved photons at NLO, leveraging the Weizsäcker-Williams Approximation. Its wide-ranging applicability will enable event generation for collisions involving leptons, protons and heavy ions. Thus, it will be particularly useful for the study of ultraperipheral collisions (UPCs) and for making predictions relevant to the EIC.

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