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Algorithmics of Diffraction

New analysis and synthesis approaches are introduced for high energy diffraction, especially for central exclusive processes at the LHC. The synthesis features include differential screening, an expendable set of process amplitudes with adaptive Monte Carlo sampling, spin systematics and a generator framework using modern computational techniques. For the analysis of inclusive events, a systematic description of observables of diffraction is obtained by a fusion of incidence algebras and probability calculus.

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