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Removing negative weights in Monte Carlo event samples

Tuesday 14 November 2023 12:30 (30 minutes)

Negative Monte Carlo event weights greatly hamper the statistical convergence, leading to large samples and incurring a huge increase in computational cost for subsequent steps in the simulation chain. I discuss the cell resampling method for cancelling negative weights inside small phase space regions and present recent improvements that render the application to large high-multiplicity samples feasible

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