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Generalised Parton Distributions at the time of high precision experiments

Introduced more than two decades ago, Generalised Parton Distributions (GPDs) have been deeply studied theoretically as they offer the unique opportunities to i) probe the multidimensional structure of the nucleon in coordinate space, and ii) collect experimental information regarding the energy-momentum tensor of hadrons. Thus, high-precision facilities such as Jefferson Lab present dedicated experimental program on GPDs, and one expects a large amount of experimental data of unmatched precision to be released in the near future. However, extracting GPDs from these data is a challenge. I will explain why and show how integrated software such as the PARTONS project will play a key role in the future of GPD phenomenology.

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Track Classification: Structure of hadrons