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PARTONS project: status, features and perspectives

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Generalised Parton Distributions (GPDs) have been introduced 20 years ago and have become one of the main topic of research in Hadron physics both experimentally and theoretically. A significant amount of beam time will be dedicated to their studies after the completion of the JLab upgrade to 12 GeV. However, until now, the GPD community misses the adequate tools to perform systematic studies of GPDs, i.e. allowing people to study the effect of different GPD models, perturbative truncations, twist truncations, evolutions... on different experimental channels. The PARtonic Tomography of Nucleon Software (PARTONS) project is an attempt to answer this need. Capitalising on 4 years of work, the software presents a very flexible architecture allowing the users to implement their own modules without touching the core. The first version is now ready for the public release but awaits the required authorisations and licensing. In this talk, I will presents the different functionalities of PARTONS and highlight how such a software can help us to understand the nucleon structure.

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