Generic event generator for exclusive processes

Groups involved (contact persons):

- BNL (Salvatore Fazio sfazio@bnl.gov)
- CEA (Hervé Moutarde herve.moutarde@cea.fr)
- NCBJ (Paweł Sznajder: pawel.sznajder@ncbj.gov.pl)

Design assumptions:

- Based on PARTONS (http://partons.cea.fr) being unique framework dedicated to study of 3D hadron structure
- Generic - multi-channel capability
- Automatised and of modular structure
- Written and maintained in a way allowing lifespan matching that of EIC experiments
- Possible extension to other nucleon structure functions in the future

Work plan:

- Analysis and learning: gained experience working with MILOU MC generator and created toyMC for the purpose of YR analysis
- Designing: already had numerous discussions, including those with world experts in e.g. radiative corrections, will ask EIC Software Group for input

we are here

- Implementation: man power secured e.g. by BNL Physics Department & LDRD grant (PI: S. Fazio)
- Versioning: Testing / release / maintaining / documentation / user assistance and training in collaboration with EIC Software Group