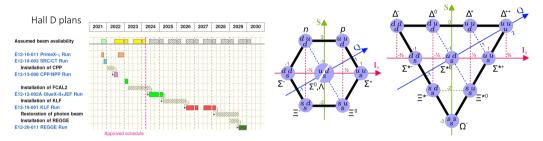




Stuart Fegan University of York May 2nd, 2024



KLF is Coming



- We need to be ready
- Not just beamline and hardware, but software too
- Need extensive simulation of reactions of interest

S. Fegan KLF Project May 2nd, 2024 1/3

KLGenerator hddm

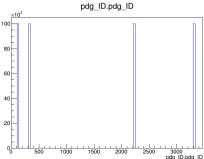
- https://github.com/sdobbs/KLGenerator hddm V3 (forked from https://github.com/nickzachariou/KLGenerator_hddm_V3)
- Seems to date back to York's Edinburgh days
- \blacksquare Covers a reasonably comprehensive range of K_{Long} reaction channels on both proton and neutron
- Tunable K_{Long} beam parameters
- \blacksquare Can also generate γp and np events

KLF Project May 2nd, 2024 2/3

- Status
- Generator compiled and running (using KLF singularity image of Hall D software stack)

Generator

- Reconstruction and smearing steps have ran, and produced output files
- Currently assessing some analysis plugins from Nick, they date back to our Edinburgh days, so current issues are with contemporary compiler environments



S. Fegan KLF Project May 2nd, 2024 3/3