

Møller Polarimetry for GEN

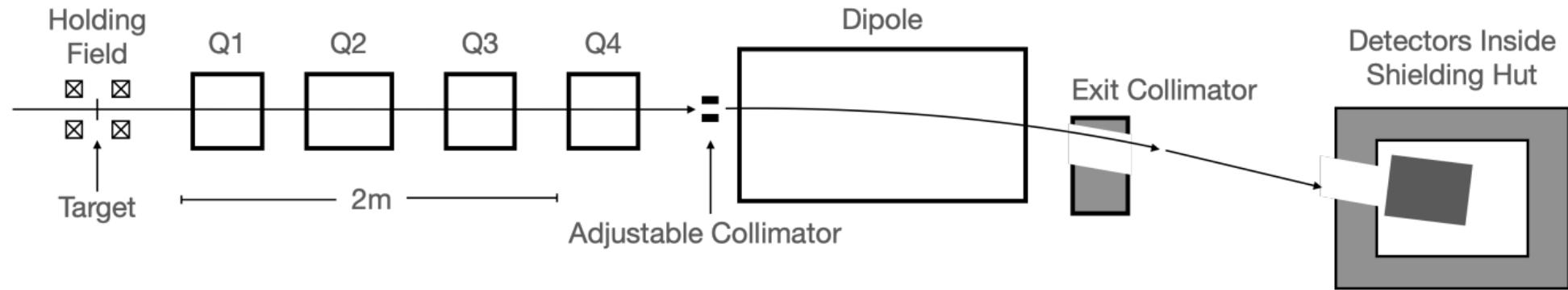
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Donald Jones, Eric King



U.S. DEPARTMENT OF
ENERGY

Office of
Science

Moller Polarimetry at 6GeV

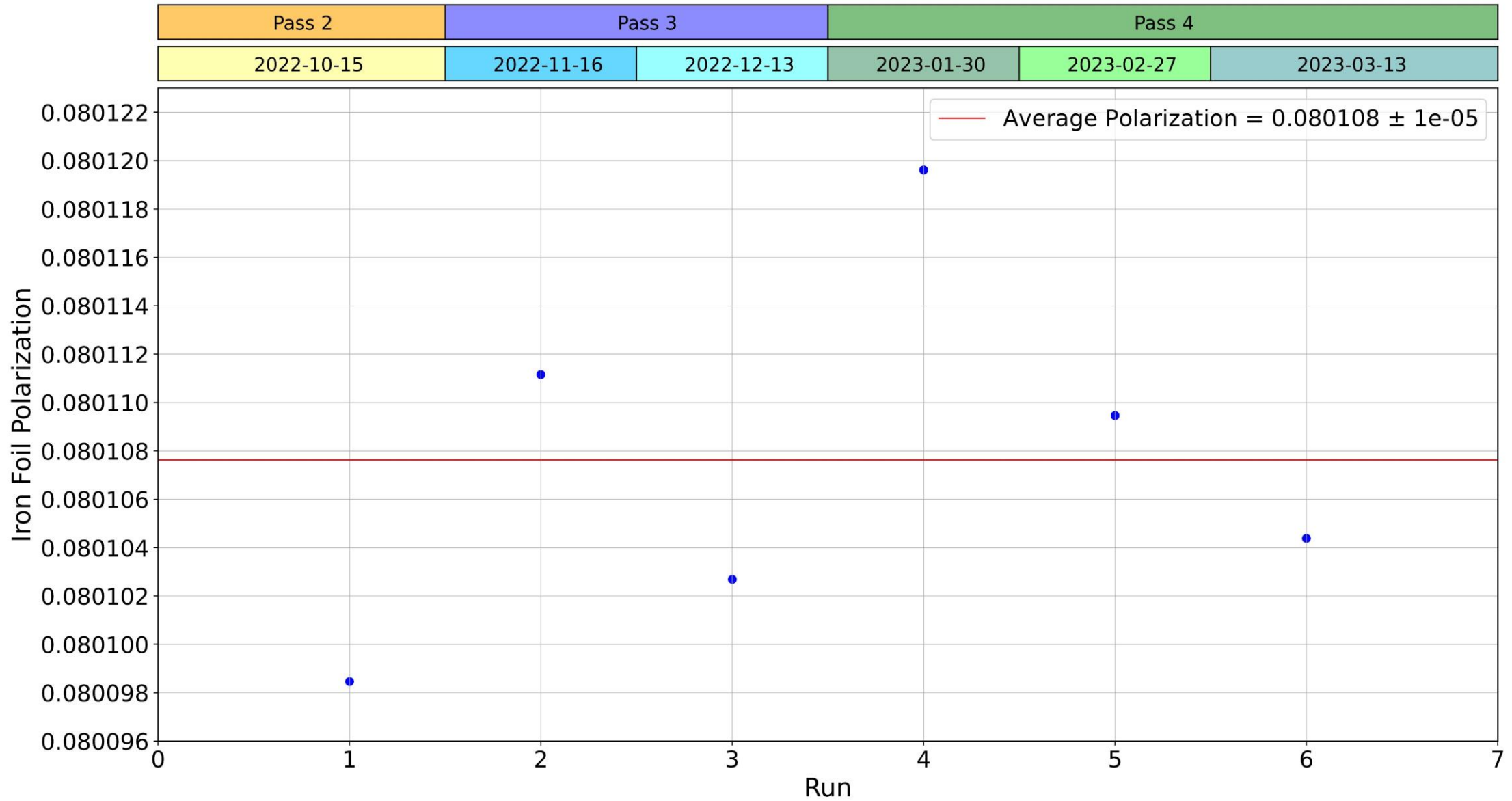


$$A_{\text{measured}} = -P_{\text{beam}} \cdot P_{\text{target}} \cdot \langle A_{zz} \rangle$$

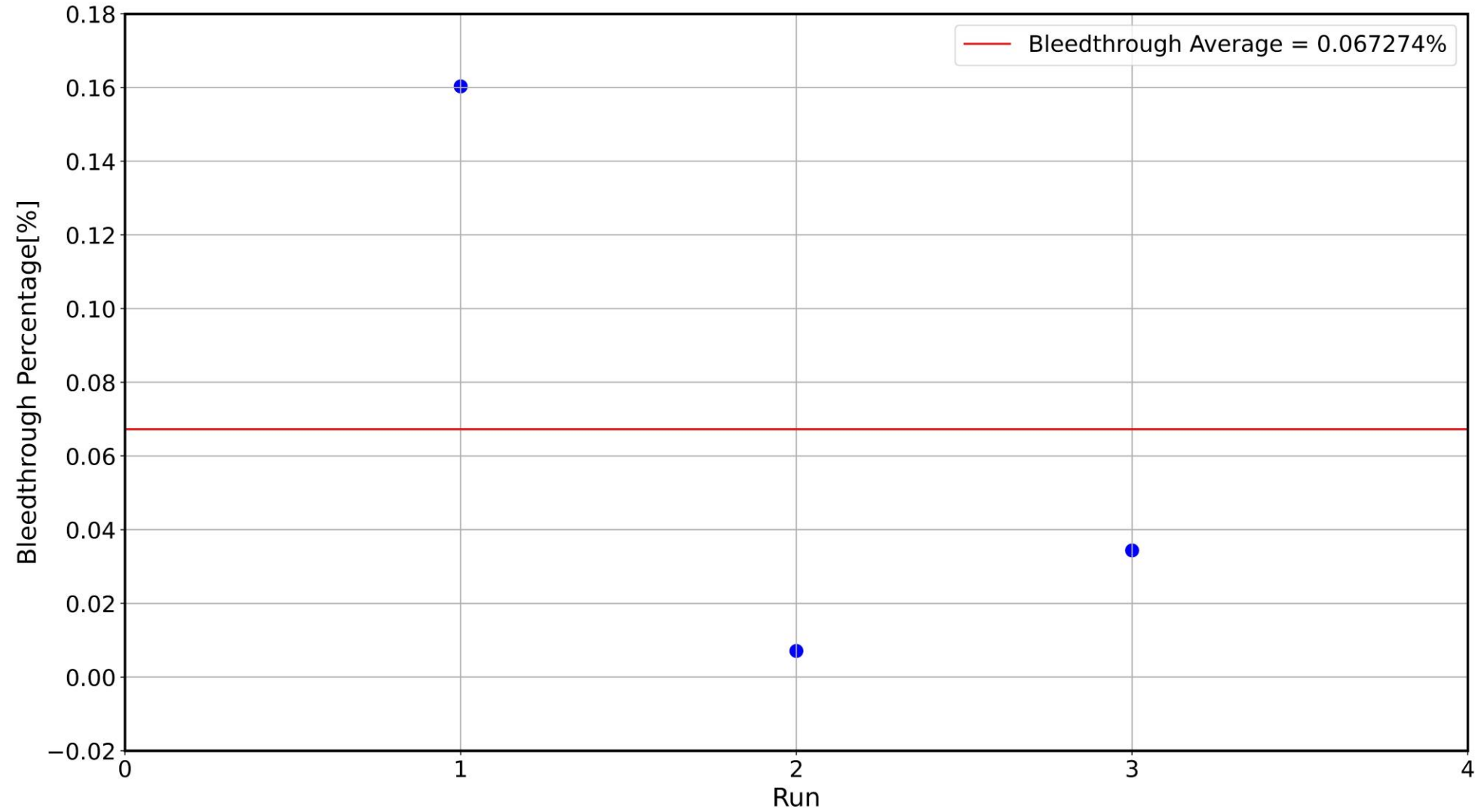
$$P_{\text{beam}} = -\frac{A_{\text{measured}}}{P_{\text{target}} \cdot \langle A_{zz} \rangle}$$

Moller Polarimetry Results and Analysis

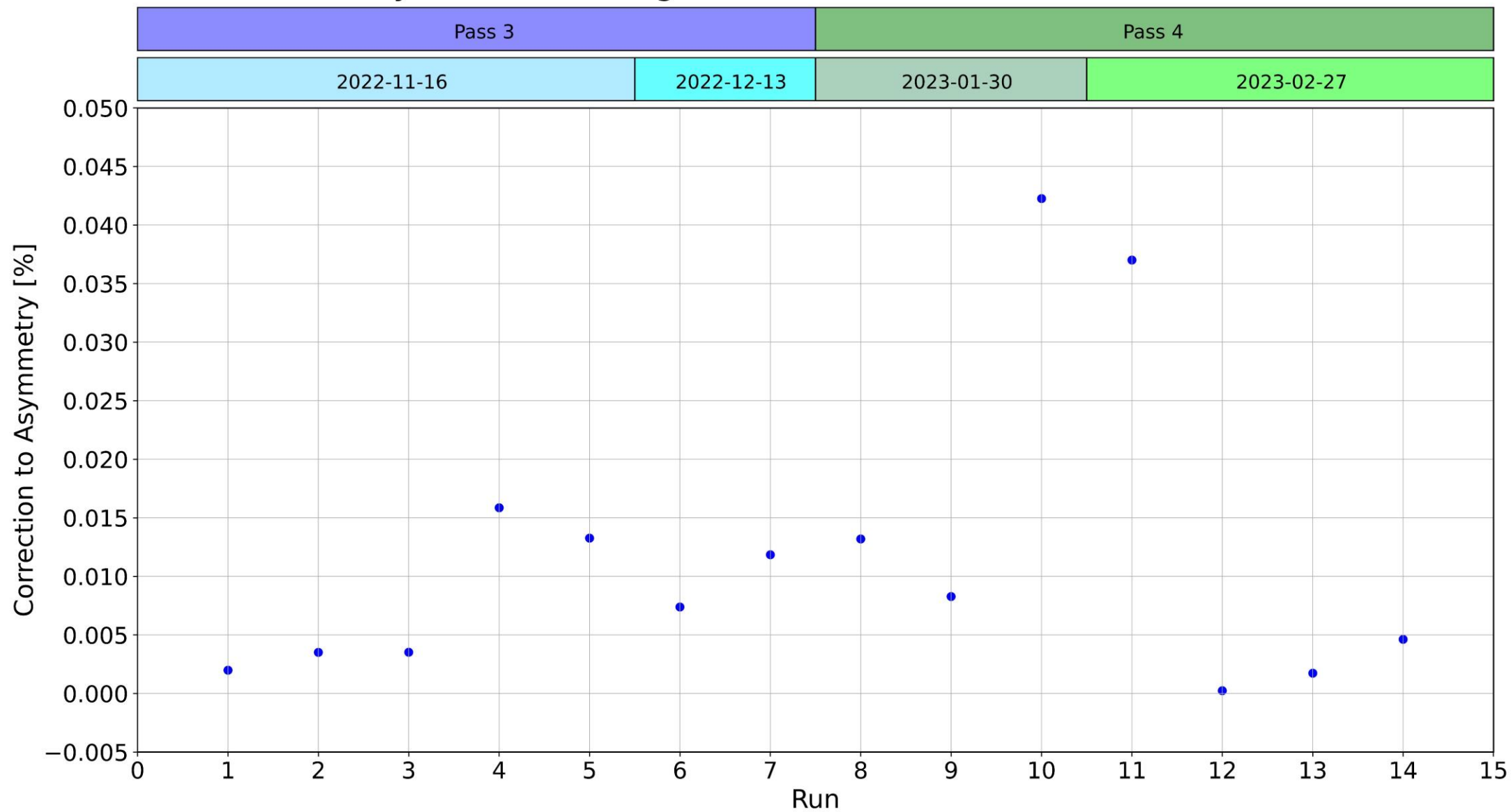
Polarimetry Results - Moller Target Polarization



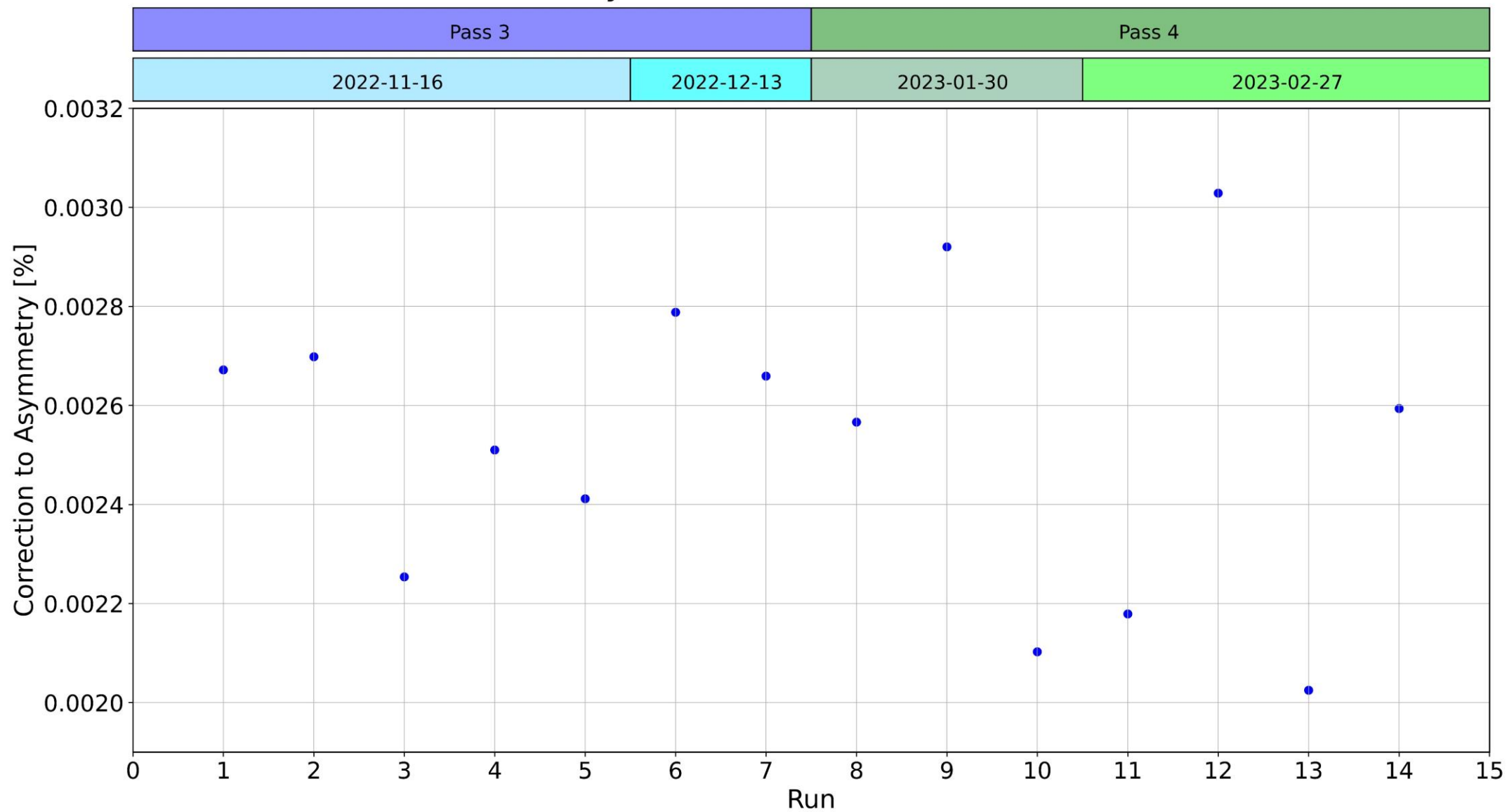
Leakage Currents



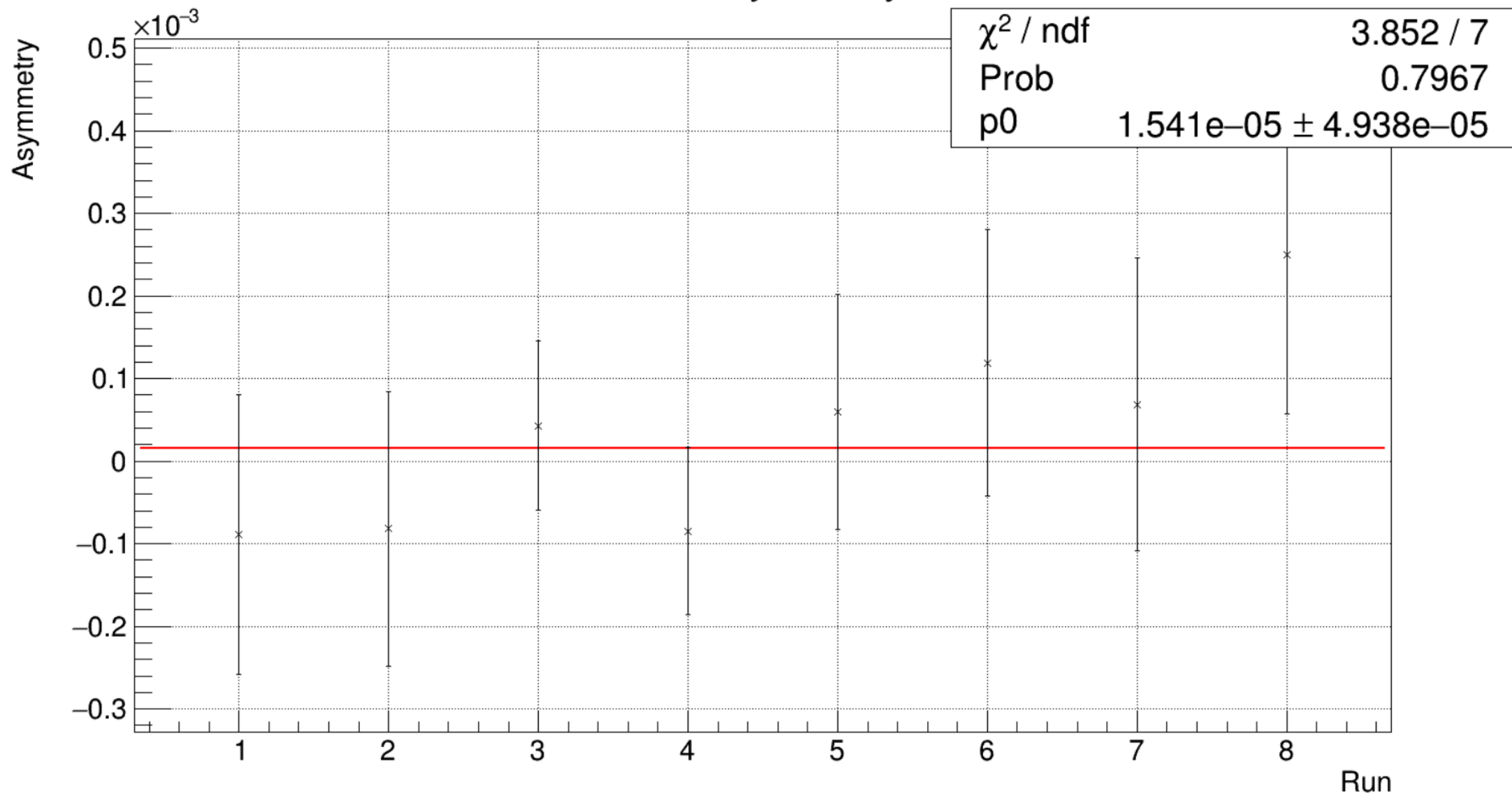
Polarimetry Results - Charge Normalization and Pedestal Subtraction



Polarimetry Results - Accidental Correction

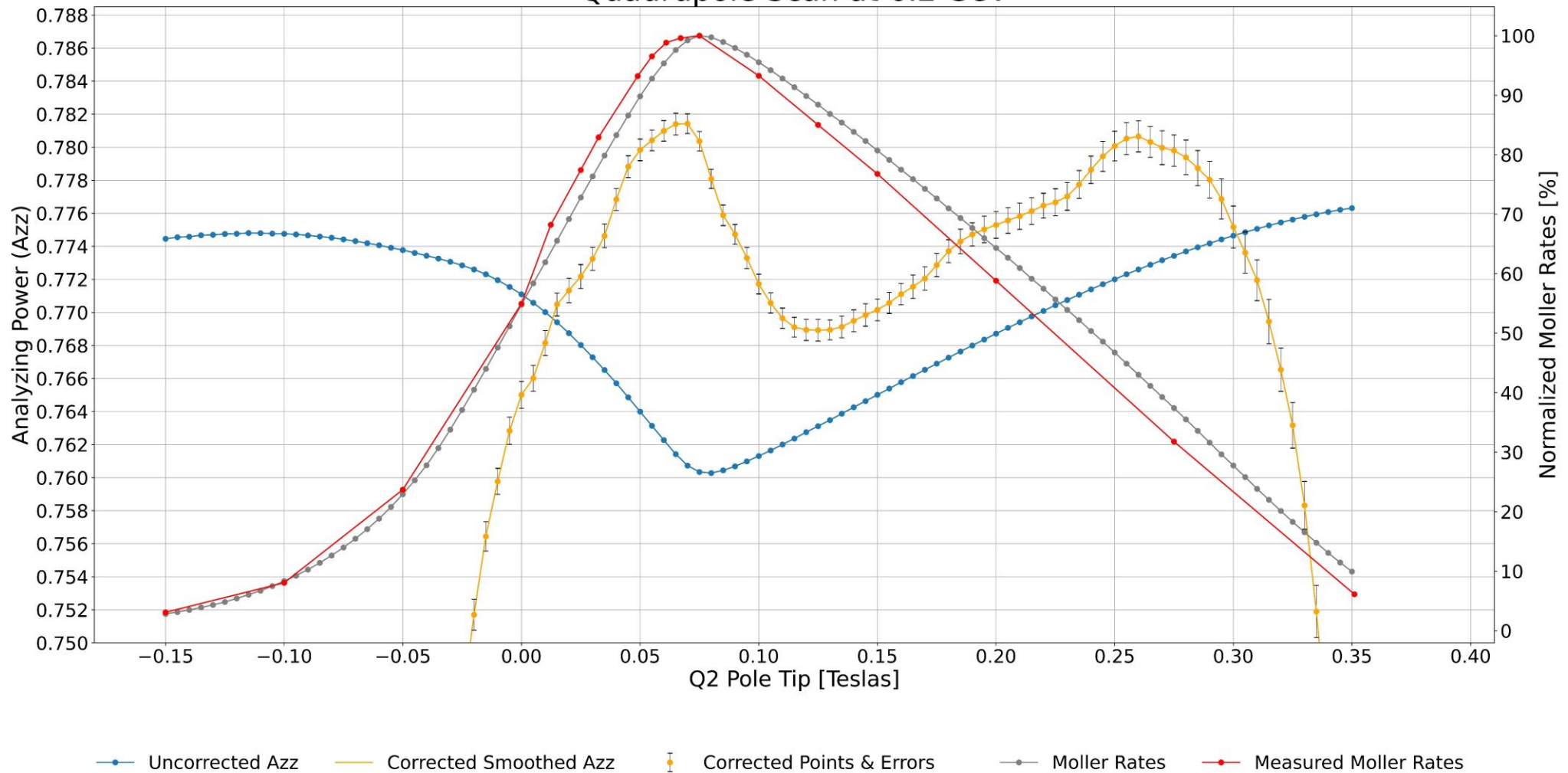


Null Asymmetry

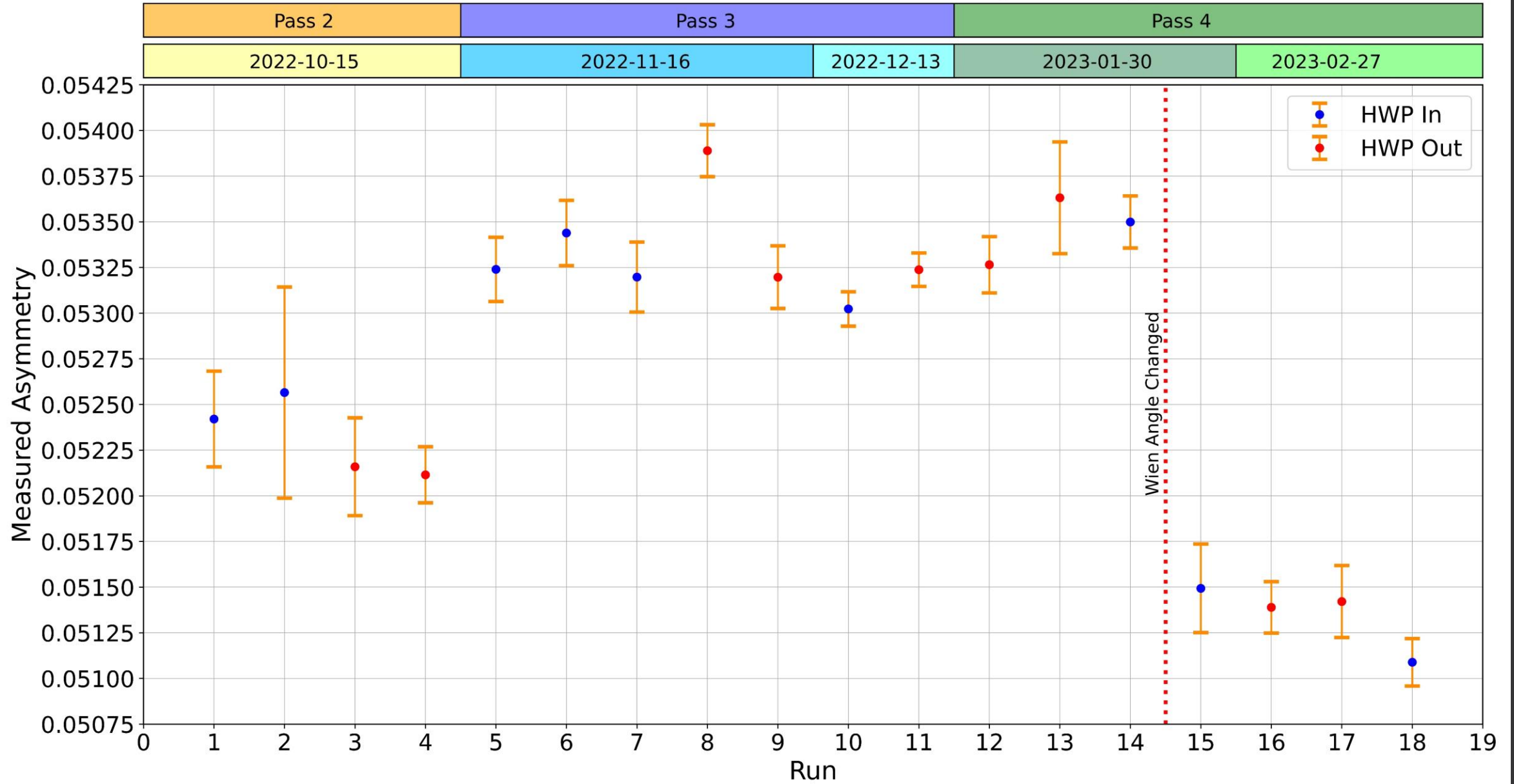


Rate Scans and Maximum Analyzing Power

Quadrupole Scan at 6.2 GeV



Polarimetry Results - Measured Asymmetry



Polarimetry Results - Beam Polarization

