dpol config

Tian Baiting

SAMURAI Collaboration

January 18, 2026

1. config
   - dpol hit exitwindow
   - target outside magnetic

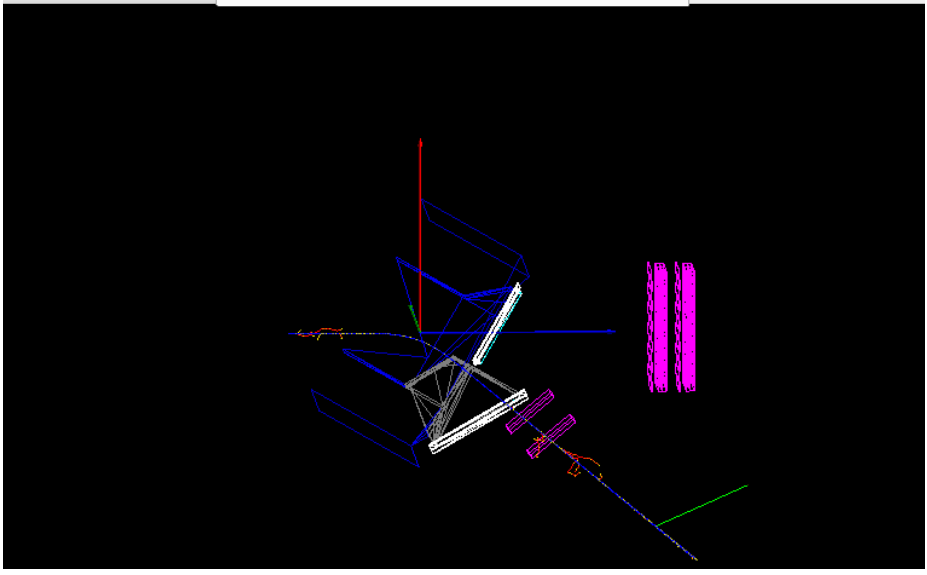


Figure: 2.0T

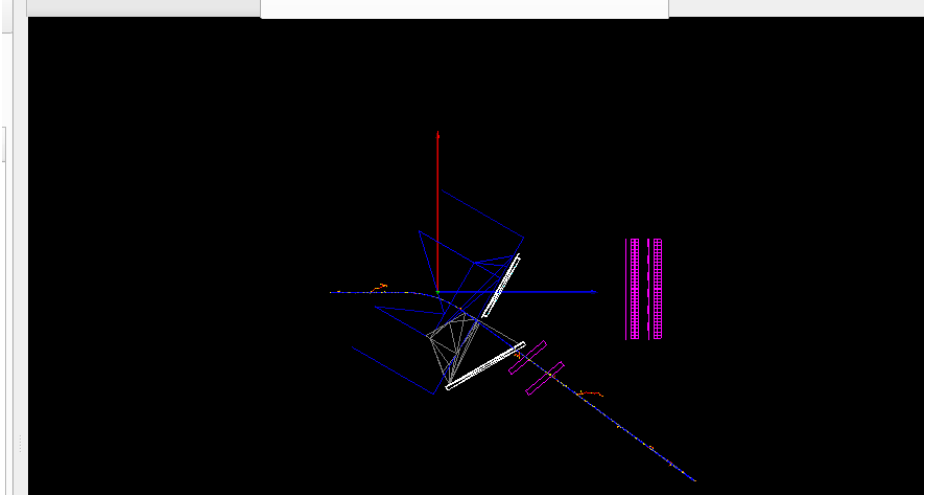


Figure: 1.8T

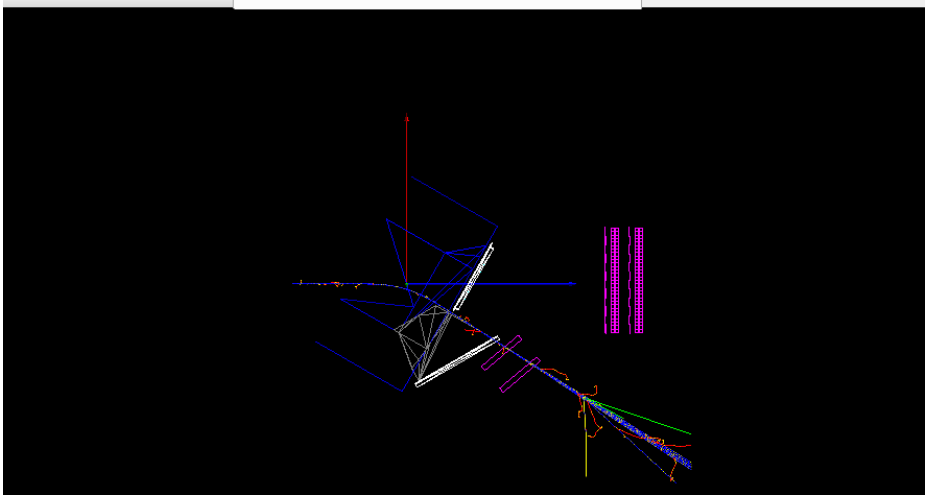


Figure: 1.6T

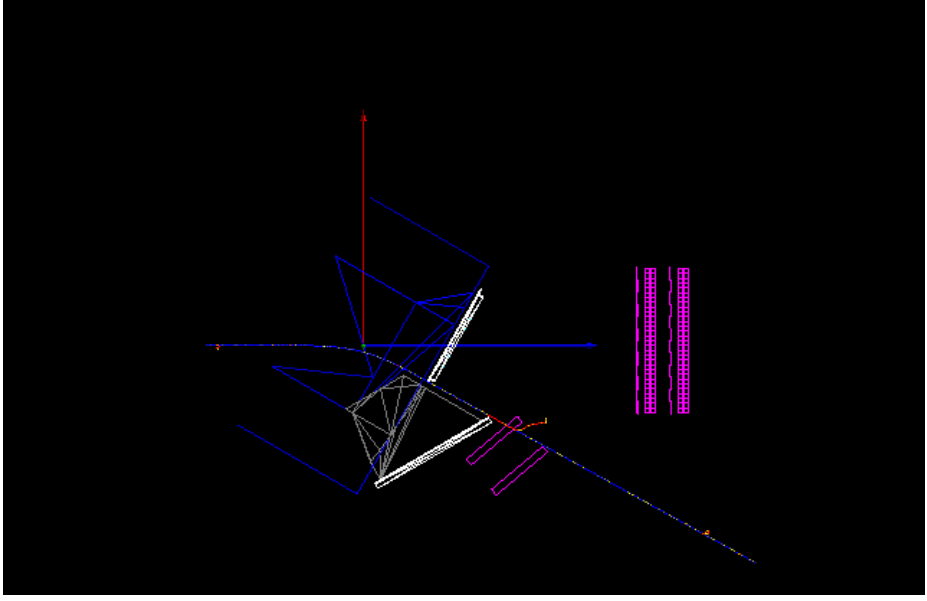


Figure: 1.4T

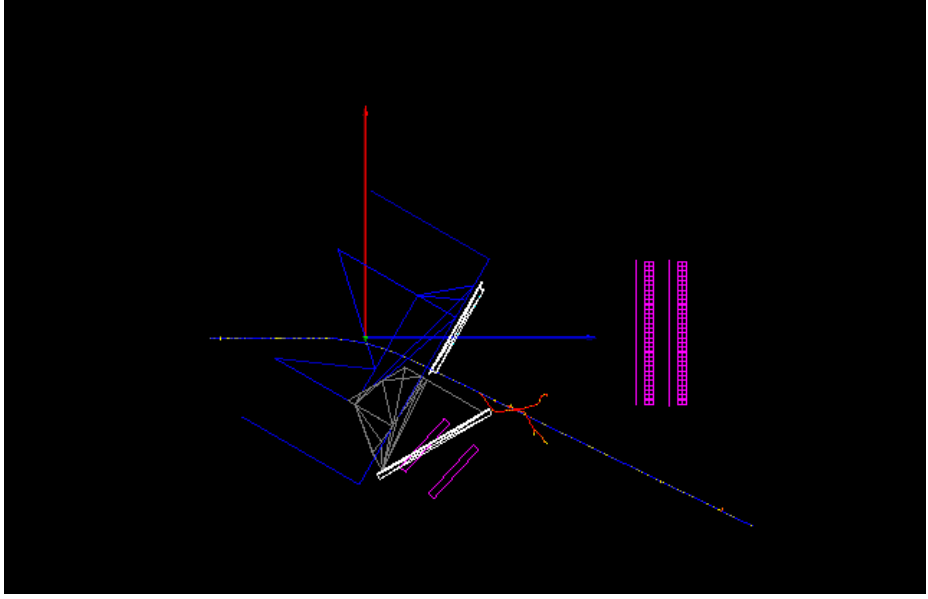


Figure: 1.2T

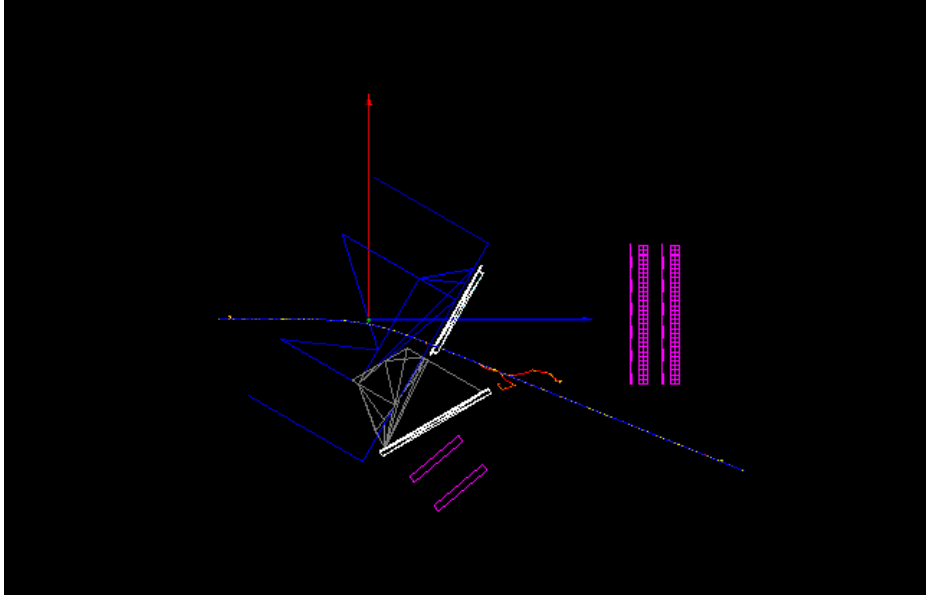


Figure: 1.0T

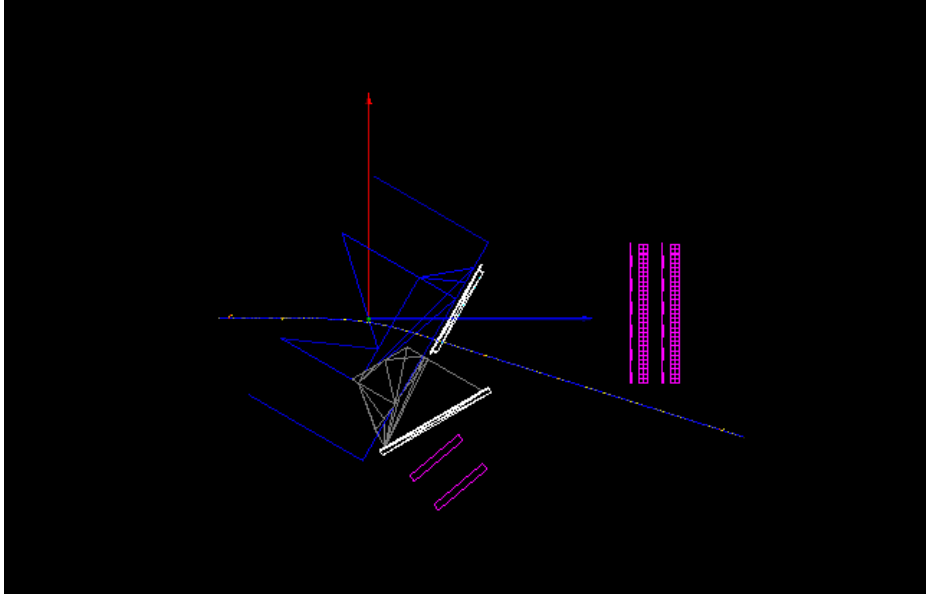
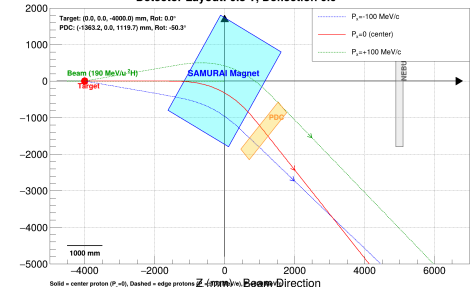


Figure: 0.8T

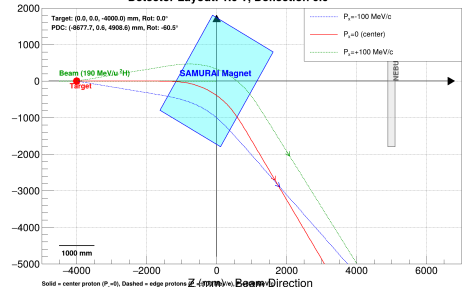
Rationale for Target Placement

Why the target must be placed inside the magnetic field:

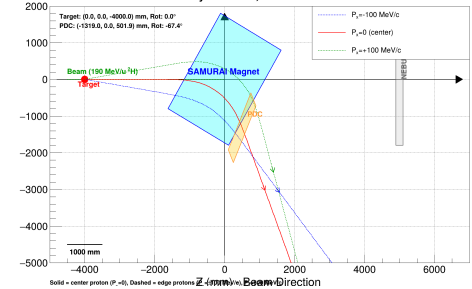
- **Strong B-field Case:**
  - Difficult proton track reconstruction.
- **Weak B-field Case:**
  - Risk of protons hitting the exit window.
- **General Constraint:**
  - Poor neutron geometric acceptance.



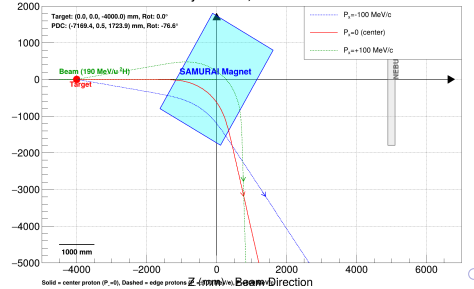
(a) 0.80 T



(b) 1.00 T



(c) 1.20 T



(d) 1.40 T