

## LHRS and RHRS optics

- Call MCC to request a control access to **insert sieve** on the left arm.
- Now, the target should be at **B' wire** position. If so, let's just start from here.
- Check raster size, should be **2x2**.
- Call MCC for 5 uA beam.
- Call MCC to keep septum current to **-1006.4 A**, **correctors ON** (up 30, down 10).
- Trigger: **T1 = 1**, **T4=1** and all others = 0
- Start taking data:
  - 1st set: 2x2 raster ON, 5 uA beam on V1 ( $x_{\text{beam}}(\text{BPM-B}) = 0.1$ ,  $y=1.8$ ), 1M events
  - 2nd set: 2x2 raster ON, 5 uA beam on V2 ( $x_{\text{beam}}(\text{BPM-B}) = 2.2$ ,  $y=1.8$ ), 1M events
  - 3rd set: 2x2 raster ON, 5 uA beam on V3 ( $x_{\text{beam}}(\text{BPM-B}) = 3.7$ ), 1M events
  - Move target to **optics 3**:
  - 4th set: **raster OFF**, **20 uA** beam ( $x_{\text{beam}}(\text{BPM-B}) = 2.0$ ,  $y=1.8$ ), 3M events with **2 runs**
  - Move target to **optics 1**
  - 5th set: **raster OFF**, **20uA** beam( $x_{\text{beam}}(\text{BPM-B}) = 2.0$ ,  $y=1.8$ ), 3M events with **2 runs**

- **Now, take RHRS optics data with horizontal W wires. H2 and H3.**
- Move target to **Tungsten wire** position.
- Beam current at **5uA**
- Beam position at BPM-B:  $x = 2.9$ ,  $y = 1.8$ , supposed that beam on somewhere between H2 and H3. Horizontally, beam should be between V2 and V3.
- Turn on Raster **1.5x8**, principally, both of H2 and H3 should be hit (see from the raster online plot).
- Start taking data:
  - 6st set: 1M events with **2 runs**