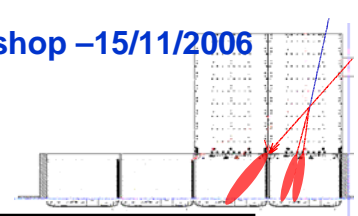




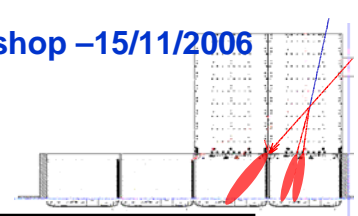
GSI Test Program



- ❑ **CU response to heavy ions – main program**
 - **TKR response**
 - Saturation effects (TOT, hits)
 - tracking performance with ions (TKRRecon)
 - Deadtime induced by signal saturation
 - **CAL response**
 - Ions identification (GCRCalib)
 - Quenching factors
 - **CNO trigger**
 - Threshold set at ~8mip for 2 tiles
 - calibration to be repeated at GSI with beam
- ❑ **Last chance for *bonus* program – current ideas**
 - **Work at very low rates + rate scan (10-100Hz/cm²)**
 - **Charge injection with beam**
 - **CAL cross-calibration**
 - **CAL signal cross-talk**
 - **Single CAL w/o TKR data (tower1)**
 - **scintillation signal in CAL CDE**
 - **Any other?**
- ❑ **Towards a program**
 - **20 min run at 100Hz, with 50%dc gives 6k evts**
 - **How many evts for each line in the program? 50k per line per configuration enough?**



GSI preparation status



- ❑ All hardware safely at GSI since Tuesday at 2PM
 - CU in the cave today
 - Dry run w/o beam by thursday
- ❑ DAQ and online
 - Multiple trigger engines defined and coded into specific BTs
 - 4rng, NZS (ideal) and ZS (flight operation) for heavy ions
 - CR triggers rejected by requesting CNO and vetoing TKR-only
 - External trigger
 - periodic trigger with variables frequency
 - Online
 - New BT e2e script startup GUI
 - Ion beam simulation passed through online tool
- ❑ Offline and recon software
 - New BTRelease soon – when?
 - GCRCalib being released
 - TKRRecon check on cluster shape skipped
 - First set of simulated data for training people and tools
 - Wide beam