

1st Thoughts on LHC BPM Specifications

- **Status quo, limitation and issues with the present WBTN BPM system**
 - Maintenance, spares, dynamic range, doublets
- **Translate requirements to technical specifications**
- **Discuss the upgrade boundaries set by hardware infrastructure and machine environment**
 - Fibers, tunnel locations, radiation levels
- **Present the signal processing layout to be tested for the LHC interlock BPMs**
 - Time multiplexed electrode signal processing
- **Present a realistic signal processing scenario for the LHC BPM upgrade**
 - Rad tolerant electronics
- **Discuss measurement options, some beyond the scope of beam position measurements**
 - Quadrupolar moments, IQ-signal processing (time/phase information, e.g. bunch crabbing)