



Calibration, Response, Data Quality

LSC meeting, March 16, 2001



Calibration

- ❑ 5000 channels / ifo ▶ separate GW signal from rest
- ❑ 2 DC groups: transfer function & timing
- ❑ Records in XML format:
 - Done for LHO PEM
 - Web interface in the works
 - DTT uses it (read, write, modify, apply)
 - DB backend?
- ❑ Availability of calibration for GW signal: When? How good?



Standard Response

- Trend
 - Second and minute
 - Mean, min, max, rms., std. dev., N
- Periodic reference spectra
 - DMT/DSS (data set summary) builder
 - XML definition of t-/f-series, psd, transfer func., etc.
 - Can be viewed by DTT
 - Needs to done: XML ► DB ► clients
- Requirements for h spectra
 - Resolution, bandwidth, averaging, etc.
 - Search specific?



Data Quality Information

- ❑ Not a lot done so far
- ❑ Need:
 - “Scanner” to capture what gets send to the archive:
 - Channels information, on-time, run numbers, etc.
 - Lock stretch monitor (worked on) ► first cut done by shift crew
 - Standard measure: e.g., average distance for a reference source?
 - Other measures?
 - Ring-down? DMT trigger “happiness”? Analysis specific?
 - DB definition of DQI
 - Way to generate lists of time intervals for analysis
 - Way to “load” this list into the data feeder of the analysis
- ❑ Will be first task of UL groups to refine what’s good data