

DETECTOR PERFORMANCE

- NOISE POWER SPECTRA
- SYSTEM RESPONSE FUNCTION (CALIBRATION)
- DATA QUALITY
- * Stored as meta-data in LIGO lightweight format
- * Access through “GUILD”: GUI and command line

NOISE POWER SPECTRA

- Fourier transform of data as whitened by servoes
 - Resolution 0.1 Hz
 - Frequency range DC - 7.4 KHz
 - Single precision floating point
- Refreshed once/hour
- Latency: minutes

SYSTEM RESPONSE FUNCTION

- h/count , x/count of the whitened data
- Recalculated once/day : need hours to measure
- OPEN QUESTIONS
 - how often to calibrate
 - what kind of calibration
 - swept sine
 - calibration lines
 - pseudo random sequences

DATA QUALITY

- FILE OF START/STOP TIMES OF GOOD DATA
- DERIVED FROM DMT
- CRITERIA
 - vetoed from environmental monitor system
 - vetoed from interferometer monitoring
 - band limited rms values, set for 90% on time
- NEED TO CHOOSE CHANNELS TO MONITOR