



## Channel Key\*

- 1 L1:PSL-FSS\_FAST\_F
- 2 L1:PSL-FSS\_MIXERM\_F
- 3 L1:PSL-FSS\_RCTRANSPD\_F
- 4 L1:PSL-FSS\_RFPDDC\_F
- 5 L1:PSL-ISS\_CURRSHNT\_NW \*\*,\*\*\*  
L1:PSL-ISS\_CURRSHNT\_W
- 6 L1:PSL-ISS\_ILMONPD\_NW  
L1:PSL-ISS\_ILMONPD\_W
- 7 L1:PSL-ISS\_ILSENSPD\_NW  
L1:PSL-ISS\_ILSENSPD\_W  
L1:PSL-ISS\_OLMONPD\_NW (Not Shown)  
L1:PSL-ISS\_OLMONPD\_W
- 8 L1:PSL-PMC\_ERR\_F
- 9 L1:PSL-PMC\_PZT\_F
- 10 L1:PSL-PMC\_RFPDDC\_F
- 11 L1:PSL-PMC\_TRANSPD\_F

\* Only fast channels (sampling frequency  $\Rightarrow$  256 Hz) for S6 are shown. Hence, the NPRO Monitor and Amplitude Monitor are not identified here.

\*\* The Livingston channel is incorrectly labeled as a Current Shunt. The Hanford channel is correct in labeling it an AOM.

\*\*\* \_NW denotes no whitening. \_W denotes whitening. Channels with two different endings have the same source but are taken at a different sampling frequency (2048 Hz for \_NW, 16384 Hz for \_W).

## Useful Acronyms

FSS = Frequency Stabilization Servo

ISS = Intensity (Power) Stabilization Servo

PMC = Pre-Mode Cleaner

LO = Local Oscillator

PA = Power Amplifier






PO = Pick Off

AOM = Acousto Optic Modulator

EOM = Electro Optic Modulator

PZT = Piezoelectric Transducer

NPRO = Non-Planar Ring Oscillator (type of laser installed here)

-  Denotes laser light.
-  Denotes FSS signal.
-  Denotes PMC signal.
-  Denotes ISS signal.
-  Denotes other electronic signal.

# Enhanced LIGO Pre-Stabilized Laser