



DBB	
Diagnostic breadboard:	DBID 0208, lock mode (4)
Selected laser beam:	35W laser (DBB shutter open)

POWER NOISE	
Measurement:	3600 s = 60.0 min, 12. Jul 2011 20:53 CDT
Average DC signal:	9.905 V
DC signal range:	9.882 V . . 9.941 V (65536 Hz samplingrate)
Minimum power:	-0.23% ([min-avg]/avg)
Relative peak-to-peak:	0.60% ([max-min]/avg)
Photo current:	50 mA
Relative shot noise level:	2.54e-09 Hz ^{-1/2}

D A Q

Measurement duration:	3600 s = 60.0 min
Measurement start:	12. Jul 2011 20:53 CDT (13. Jul 2011 01:53 UTC, 994557236 GPS)
NDS:	10.110.140.106:8088 (v12r0)
User:	controls@l1pslctrl4.local
Channels:	L1:PSL-DBB_RPD_DC_OUT 65536 Hz, L1:PSL-DBB_RPD_REL_PWR_OUT 65536 Hz, L1:PSL-DBB_SHUTTER 16 Hz, L1:PSL-DBB_DBID 16 Hz, L1:PSL-DBB_MON_SHUTTER_CLOSED 16 Hz, L1:PSL-DBB_MODE_NUM 16 Hz
Raw data:	rawdata.zip (attached to this .pdf file, use Adobe Reader)
Calibration:	dbb_rpn.2011-06-09.cali (embedded), 09. Jun 2011 15:56 UTC
Report source files:	report.zip (attached to this .pdf file, use Adobe Reader)
Program:	dbb_rpn.py v0.3-12-g5bf8f1d, Patrick Kwee, patrick.kwee@aei.mpg.de

I N F O

Measurement method: The power fluctuations of the beam were measured with a photodetector on the DBB. Detailed information about the measurement method and instructions for performing this measurement are available in Kwee et al., Appl. Opt., 47(32):6022–6032, 2008; LIGO-T0900133; LIGO-T0900579.
characterization measurement for OBS1 report