



DBB	
Diagnostic breadboard:	DBID 0308, manual mode (2)
Selected laser beam:	35W laser (DBB shutter open)
Power in DBB (RPD.DC):	9.8 V
PMC resonant:	0%
Beam alignment:	auto-alignment off
Modematching lens positions:	lens 1 (ML <sub>1</sub> ) = -0.1 mm, lens 2 (ML <sub>2</sub> ) = 0.0 mm, lenses latched

POINTING	
Measurement:	600 s = 10.0 min, 05. Aug 2014 13:29 PDT
	1x = 2.063 eps <sub>rms</sub> , -15.709 ... 16.777 eps,
Error signal:	1y = 33.776 eps <sub>rms</sub> , -850.157 ... 237.501 eps,
	2x = 1.493 eps <sub>rms</sub> , -11.216 ... 15.280 eps,
	2y = 10.519 eps <sub>rms</sub> , -143.220 ... 178.045 eps
Error signal slope (1x, 1y, 2x, 2y):	6.81e-02 eps/cts, 1.43e-01 eps/cts, 8.95e-02 eps/cts, 4.19e-02 eps/cts
Error signal calibration age:	8.8 min, 8.1 min, 7.5 min, 7.0 min
Control signal:	1x = 0.173 ± 0.004 eps, 1y = 0.283 ± 0.021 eps,
	2x = 0.159 ± 0.007 eps, 2y = -0.145 ± 0.025 eps

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Measurement duration:	600 s = 10.0 min
Measurement start:	05. Aug 2014 13:29 PDT (05. Aug 2014 20:29 UTC, 1091305757 GPS)
NDS:	h1nds1:8088 (v12r0)
User:	controls@opsws1
Channels:	<p>H1:PSL-DBB_QPD_1DX_CAL_OUT 65536 Hz,  H1:PSL-DBB_QPD_1DY_CAL_OUT 65536 Hz,  H1:PSL-DBB_QPD_2DX_CAL_OUT 65536 Hz,  H1:PSL-DBB_QPD_2DY_CAL_OUT 65536 Hz,  H1:PSL-DBB_CTRL_CTRL1X_EPS_OUTPUT 16 Hz,  H1:PSL-DBB_CTRL_CTRL1Y_EPS_OUTPUT 16 Hz,  H1:PSL-DBB_CTRL_CTRL2X_EPS_OUTPUT 16 Hz,  H1:PSL-DBB_CTRL_CTRL2Y_EPS_OUTPUT 16 Hz,  H1:PSL-DBB_SHUTTER 16 Hz,  H1:PSL-DBB_DBID 16 Hz,  H1:PSL-DBB_MON_SHUTTER_CLOSED 16 Hz,  H1:PSL-DBB_MODE_NUM 16 Hz,  H1:PSL-DBB_RPD_DC_OUTPUT 16 Hz,  H1:PSL-DBB_CTRL_DSWITCH_ON 16 Hz,  H1:PSL-DBB_LENS1 16 Hz,  H1:PSL-DBB_LENS2 16 Hz,  H1:PSL-DBB_LENS_LATCH 16 Hz,  H1:PSL-DBB_CTRL_RESONANT 16 Hz,  H1:PSL-DBB_QPD_MCALI_AGE_1X 16 Hz,  H1:PSL-DBB_QPD_MCALI_AGE_1Y 16 Hz,  H1:PSL-DBB_QPD_MCALI_AGE_2X 16 Hz,  H1:PSL-DBB_QPD_MCALI_AGE_2Y 16 Hz,  H1:PSL-DBB_QPD_MCALI_FACTOR_1X 16 Hz,  H1:PSL-DBB_QPD_MCALI_FACTOR_1Y 16 Hz,  H1:PSL-DBB_QPD_MCALI_FACTOR_2X 16 Hz,  H1:PSL-DBB_QPD_MCALI_FACTOR_2Y 16 Hz</p>
Raw data:	<a href="#">rawdata.zip</a> (attached to this .pdf file, use Adobe Reader)
Calibration:	default.cali (embedded), 01. Jan 1970 00:00 UTC
Report source files:	<a href="#">report.zip</a> (attached to this .pdf file, use Adobe Reader)
Program:	dbb_pnt.py v0.7, Patrick Kwee, patrick.kwee@aei.mpg.de

I N F O

Measurement method: The beam pointing fluctuations are measured with the differential wavefront sensing method. The fundamental mode of the DBB PMC is used as beam pointing reference. Shift and tilt of the beam are normalized with the beam waist radius and the beam divergence angle.

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.

*no comment*