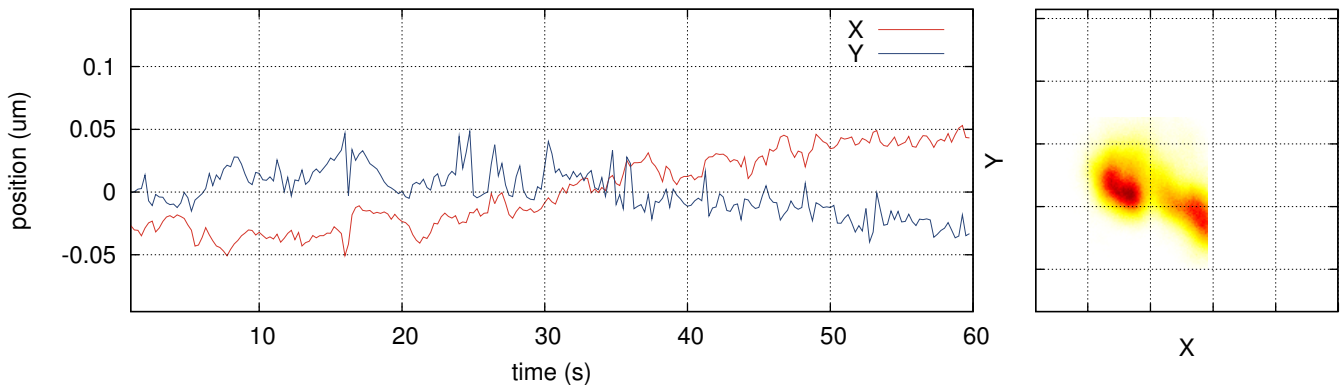
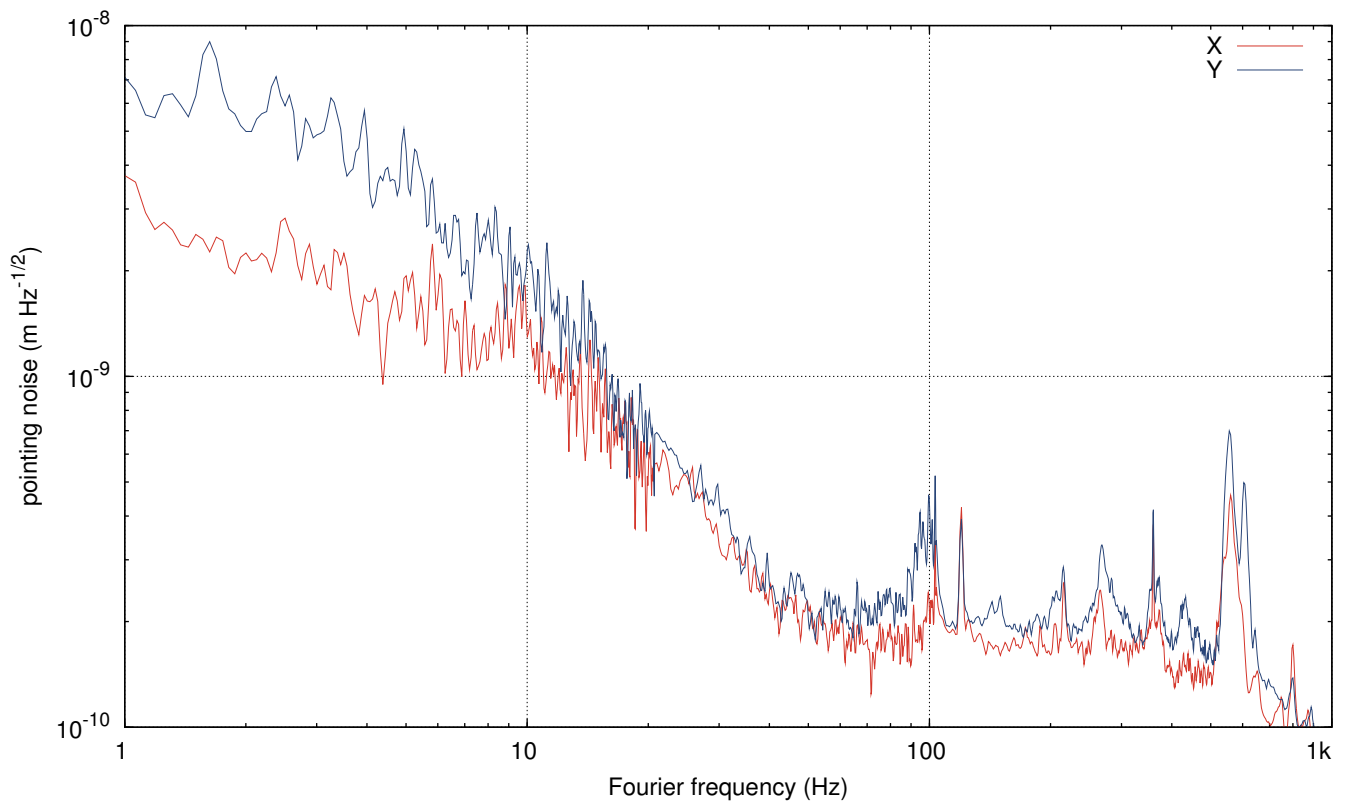


POWER STABILIZATION	
Measurement:	60 s = 1.0 min, 06. Sep 2012 10:29 PDT
Stabilization:	first loop closed, integrator on; second loop injection off
Reference signal:	-1.879 V
First-loop gain:	7.0 V
Last saturation event:	0d 16h 19m
Average AOM diffraction:	2.77%
Diffraction signal range:	2.29% . . . 3.08% (0.79% peak-to-peak, 32768 Hz samplingrate)

POWER NOISE		
	Photodiode A (PDA)	Photodiode B (PDB)
Average DC signal:	9.263 V	9.520 V
FILT signal range:	1.838 V . . . 1.862 V (0.002 V <sub>rms</sub> )	1.898 V . . . 1.909 V (0.001 V <sub>rms</sub> )
FILT samplingrate:	32768 Hz	32768 Hz
Photocurrent:	2.8 mA	2.9 mA
Relative shot noise level:	1.07e-08 Hz <sup>-1/2</sup>	1.06e-08 Hz <sup>-1/2</sup>



POSITION FLUCTUATIONS	
X position:	$31.554 \pm 0.031$ um, 31.459 um . . . 31.668 um
Y position:	$-8.439 \pm 0.022$ um, $-8.518$ um . . . $-8.293$ um
Samplingrate:	32768 Hz, 32768 Hz

D A Q	
Measurement duration:	60 s = 1.0 min
Measurement start:	06. Sep 2012 10:29 PDT (06. Sep 2012 17:29 UTC, 1030987784 GPS)
NDS:	h1nds1:8088 (v12r0)
User:	psl@operator2
Channels:	H1:PSL-ISS_PDA_OUT 32768 Hz, H1:PSL-ISS_PDB_OUT 32768 Hz, H1:PSL-ISS_DIFFRACTION_OUT 32768 Hz, H1:PSL-ISS_QPD_DX_OUT 32768 Hz, H1:PSL-ISS_QPD_DY_OUT 32768 Hz, H1:PSL-ISS_LOOP_STATE_OUTPUT 16 Hz, H1:PSL-ISS_REFSIGNAL_MON_OUTPUT 16 Hz, H1:PSL-ISS_GAIN 16 Hz, H1:PSL-ISS_SECONDDLOOP_CLOSED 16 Hz, H1:PSL-ISS_SAT_MIN 16 Hz, H1:PSL-ISS_SAT_HOUR 16 Hz, H1:PSL-ISS_SAT_DAY 16 Hz
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:	iss_rpn.py v0.6, Patrick Kwee, patrick.kwee@aei.mpg.de

I N F O	
Measurement method: The power noise downstream of the PMC is measured with two low-noise 2 mm InGaAs photodetectors. One of the photodetectors is used as sensor in the ISS first feedback control loop. The signal to the AOM driver is used to estimate the free-running power noise of the laser system.	
<i>no comment</i>	