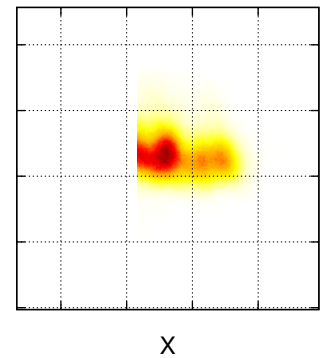
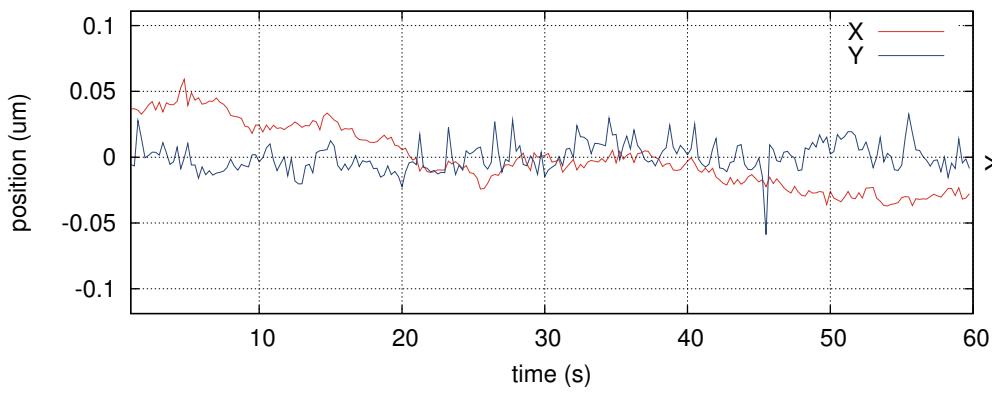
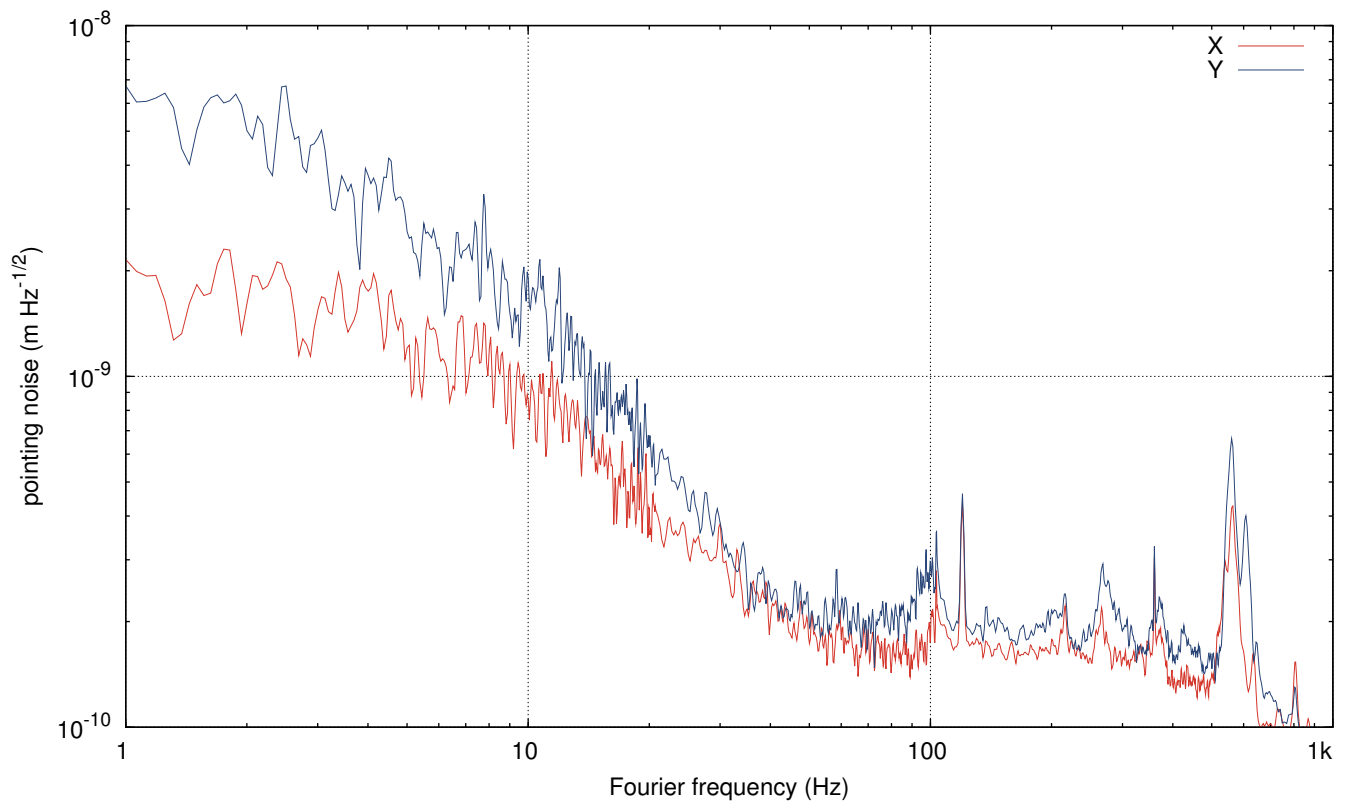


POWER STABILIZATION	
Measurement:	60 s = 1.0 min, 28. Sep 2012 09:58 PDT
Stabilization:	first loop closed, integrator on; second loop injection off
Reference signal:	-1.760 V
First-loop gain:	7.0 V
Last saturation event:	2d 17h 14m
Average AOM diffraction:	4.11%
Diffraction signal range:	3.59% . . . 4.42% (0.83% peak-to-peak, 32768 Hz samplingrate)

POWER NOISE		
	Photodiode A (PDA)	Photodiode B (PDB)
Average DC signal:	8.674 V	8.918 V
FILT signal range:	1.726 V . . . 1.743 V (0.001 V _{rms})	1.780 V . . . 1.787 V (0.001 V _{rms})
FILT samplingrate:	32768 Hz	32768 Hz
Photocurrent:	2.6 mA	2.7 mA
Relative shot noise level:	1.11e-08 Hz ^{-1/2}	1.09e-08 Hz ^{-1/2}



POSITION FLUCTUATIONS	
X position:	29.685 ± 0.025 um, 29.612 um . . . 29.779 um
Y position:	-5.833 ± 0.016 um, -5.951 um . . . -5.722 um
Samplingrate:	32768 Hz, 32768 Hz

D A Q	
Measurement duration:	60 s = 1.0 min
Measurement start:	28. Sep 2012 09:58 PDT (28. Sep 2012 16:58 UTC, 1032886742 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:	rawdata.zip (attached to this .pdf file, use Adobe Reader)
Calibration:	default.cali (embedded), 01. Jan 1970 00:00 UTC
Report source files:	report.zip (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>	