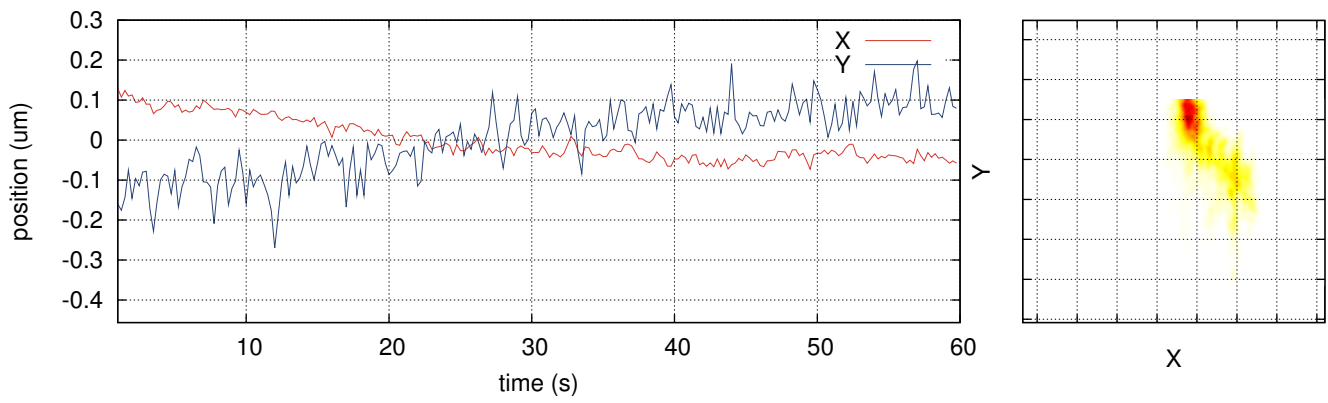
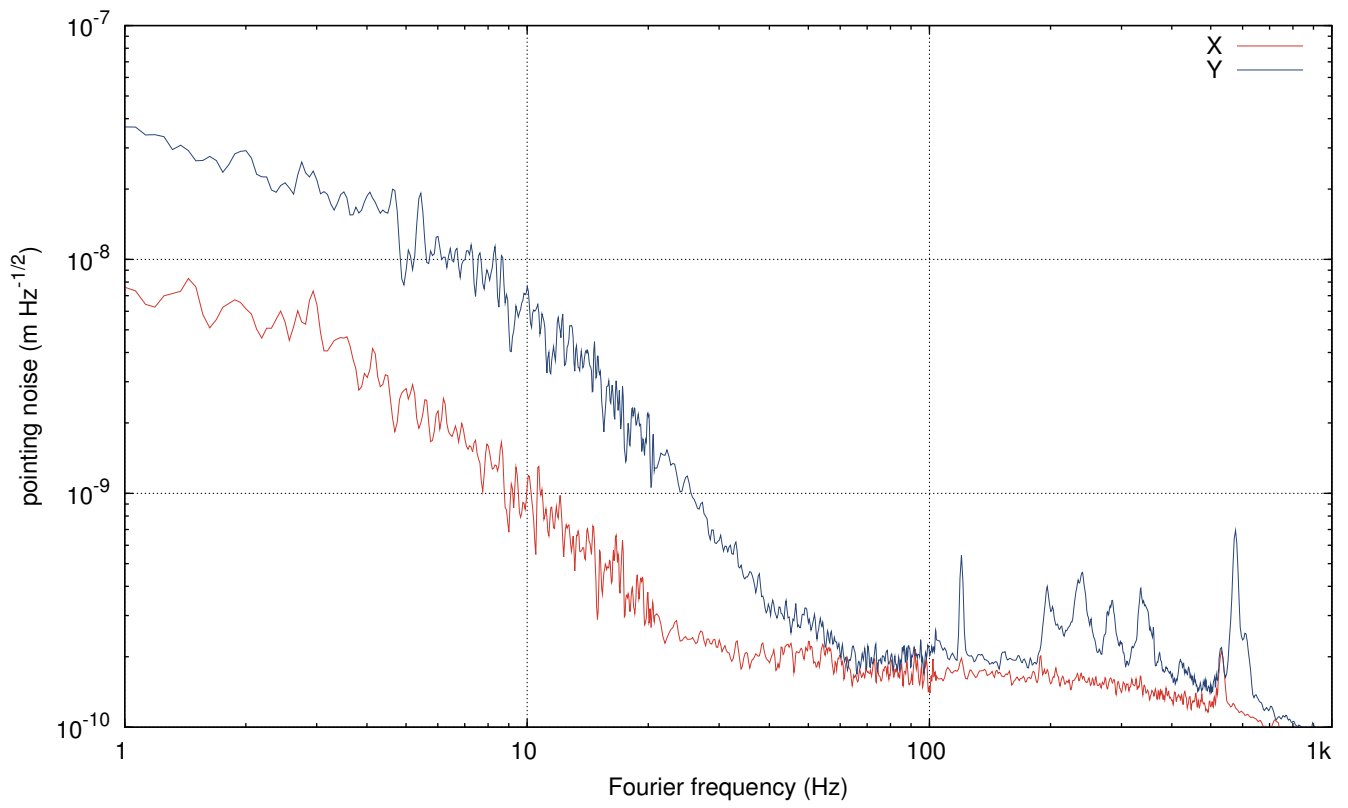


POWER STABILIZATION	
Measurement:	60 s = 1.0 min, 27. Nov 2012 11:40 PST
Stabilization:	first loop closed, integrator on; second loop injection off
Reference signal:	-1.913 V
First-loop gain:	7.0 V
Last saturation event:	5d 16h 45m
Average AOM diffraction:	12.05%
Diffraction signal range:	11.09% . . . 13.29% (2.20% peak-to-peak, 32768 Hz samplingrate)

POWER NOISE		
	Photodiode A (PDA)	Photodiode B (PDB)
Average DC signal:	9.437 V	9.695 V
FILT signal range:	1.868 V . . . 1.910 V (0.003 V _{rms})	1.935 V . . . 1.943 V (0.001 V _{rms})
FILT samplingrate:	32768 Hz	32768 Hz
Photocurrent:	2.8 mA	2.9 mA
Relative shot noise level:	1.06e-08 Hz ^{-1/2}	1.05e-08 Hz ^{-1/2}



POSITION FLUCTUATIONS	
X position:	$248.420 \pm 0.053 \text{ um}$, $248.302 \text{ um} \dots 248.610 \text{ um}$
Y position:	$-5.652 \pm 0.099 \text{ um}$, $-6.108 \text{ um} \dots -5.352 \text{ um}$
Samplingrate:	32768 Hz, 32768 Hz

D A Q	
Measurement duration:	60 s = 1.0 min
Measurement start:	27. Nov 2012 11:40 PST (27. Nov 2012 19:40 UTC, 1038080438 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>	