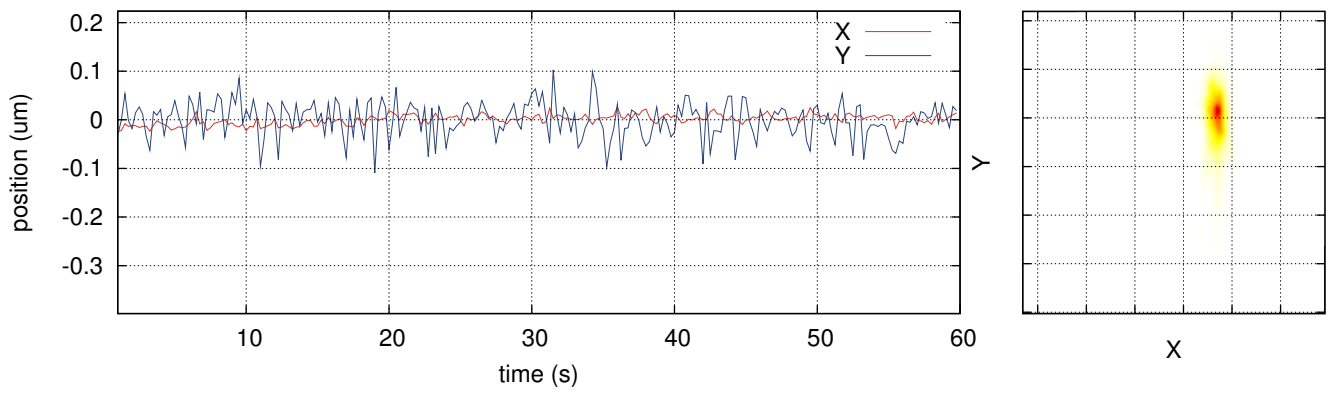
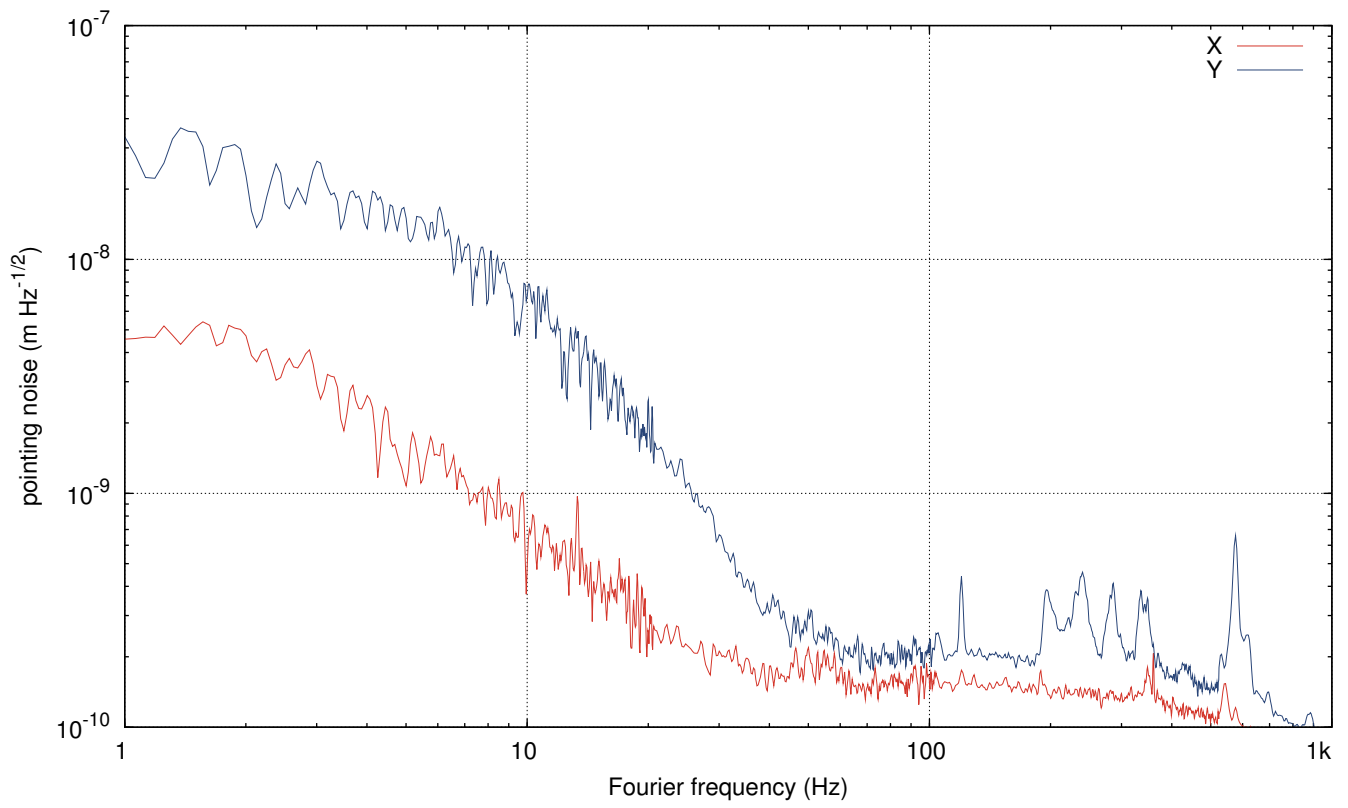


POWER STABILIZATION	
Measurement:	60 s = 1.0 min, 07. Dec 2012 16:08 PST
Stabilization:	first loop closed, integrator on; second loop injection off
Reference signal:	-1.903 V
First-loop gain:	7.0 V
Last saturation event:	0d 6h 41m
Average AOM diffraction:	10.61%
Diffraction signal range:	9.24% . . . 11.93% (2.69% peak-to-peak, 32768 Hz samplingrate)

POWER NOISE		
	Photodiode A (PDA)	Photodiode B (PDB)
Average DC signal:	9.390 V	9.647 V
FILT signal range:	1.859 V . . . 1.899 V (0.002 V _{rms})	1.925 V . . . 1.934 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:	$247.468 \pm 0.013 \text{ um}$, $247.385 \text{ um} \dots 247.524 \text{ um}$
Y position:	$-3.004 \pm 0.058 \text{ um}$, $-3.403 \text{ um} \dots -2.781 \text{ um}$
Samplingrate:	32768 Hz, 32768 Hz

D A Q	
Measurement duration:	60 s = 1.0 min
Measurement start:	07. Dec 2012 16:08 PST (08. Dec 2012 00:08 UTC, 1038960497 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>	