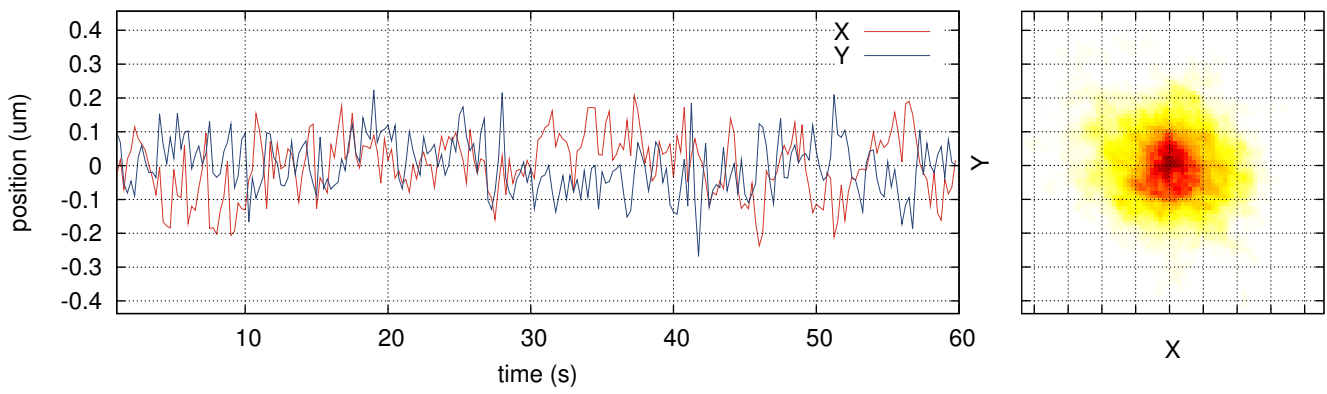
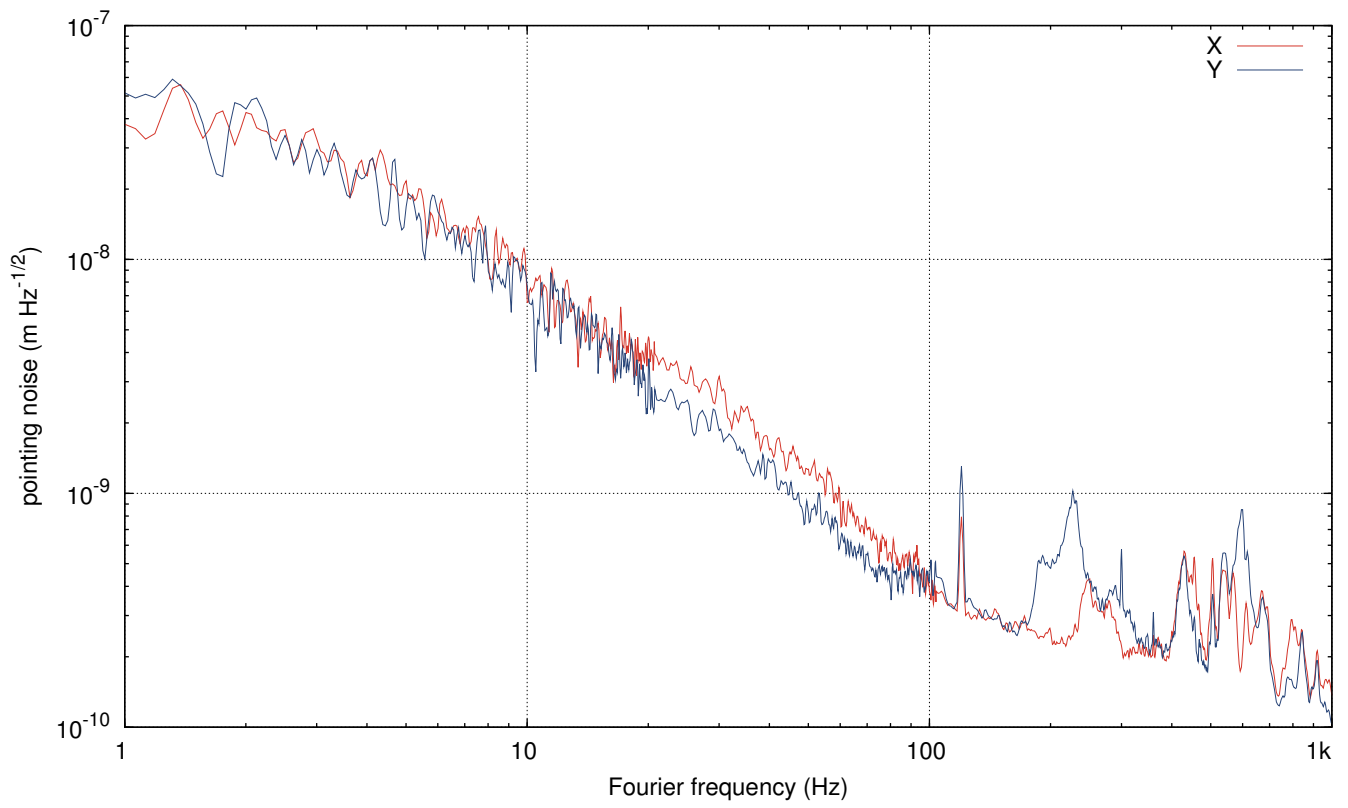


POWER STABILIZATION	
Measurement:	60 s = 1.0 min, 01. Mar 2012 11:09 PST
Stabilization:	first loop closed, integrator on; second loop injection off
Reference signal:	-2.261 V
First-loop gain:	-3.2 V
Last saturation event:	0d 20h 37m
Average AOM diffraction:	4.95%
Diffraction signal range:	2.83% . . . 7.69% (4.86% peak-to-peak, 32768 Hz samplingrate)

POWER NOISE		
	Photodiode A (PDA)	Photodiode B (PDB)
Average DC signal:	11.641 V	11.452 V
FILT signal range:	0.739 V . . . 3.709 V (0.238 V _{rms})	2.241 V . . . 2.341 V (0.008 V _{rms})
FILT samplingrate:	32768 Hz	32768 Hz
Photocurrent:	3.5 mA	3.4 mA
Relative shot noise level:	9.56e-09 Hz ^{-1/2}	9.64e-09 Hz ^{-1/2}



POSITION FLUCTUATIONS	
X position:	24.900 ± 0.111 um, 24.463 um . . . 25.262 um
Y position:	-17.601 ± 0.101 um, -18.026 um . . . -17.144 um
Samplingrate:	32768 Hz, 32768 Hz

D A Q	
Measurement duration:	60 s = 1.0 min
Measurement start:	01. Mar 2012 11:09 PST (01. Mar 2012 19:09 UTC, 1014664156 GPS)
NDS:	h2nds0:8088 (v12r0)
User:	controls@h2pslws0
Channels:	H2:PSL-ISS_PDA_OUT 32768 Hz, H2:PSL-ISS_PDB_OUT 32768 Hz, H2:PSL-ISS_DIFFRACTION_OUT 32768 Hz, H2:PSL-ISS_QPD_DX_OUT 32768 Hz, H2:PSL-ISS_QPD_DY_OUT 32768 Hz, H2:PSL-ISS_LOOP_STATE_OUTPUT 16 Hz, H2:PSL-ISS_REFSIGNAL_MON_OUTPUT 16 Hz, H2:PSL-ISS_GAIN 16 Hz, H2:PSL-ISS_SECONDDLOOP_CLOSED 16 Hz, H2:PSL-ISS_SAT_MIN 16 Hz, H2:PSL-ISS_SAT_HOUR 16 Hz, H2: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>	