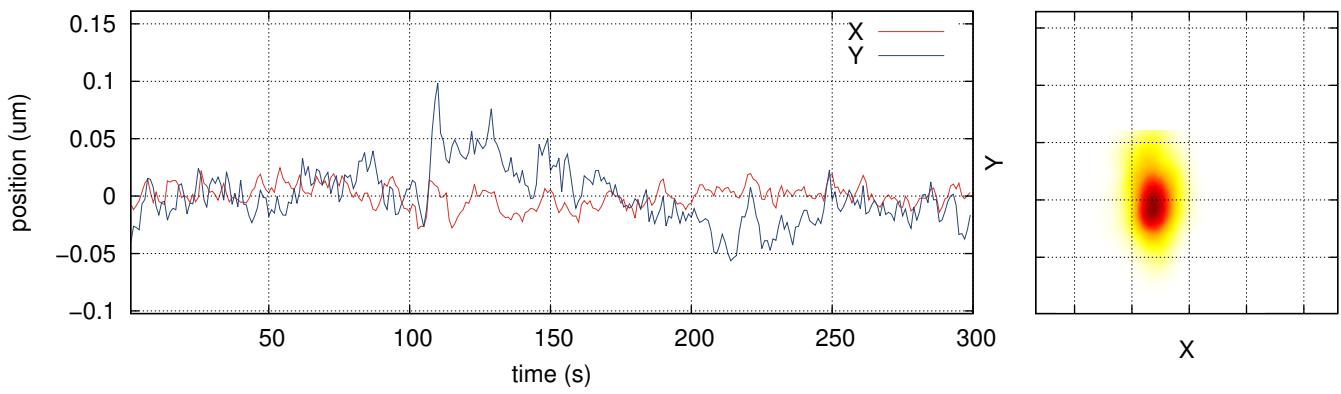
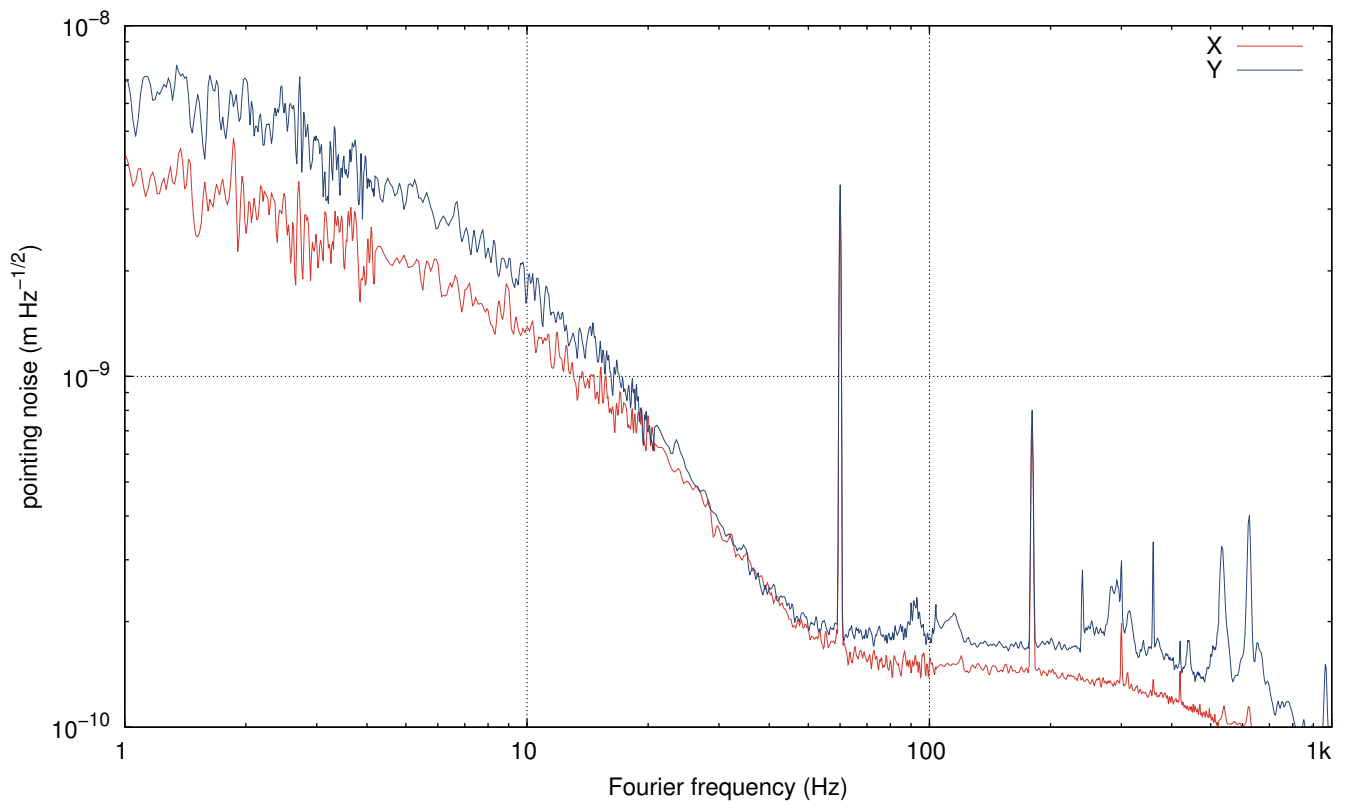


POWER STABILIZATION	
Measurement:	300 s = 5.0 min, 20. Jul 2011 23:10 CDT
Stabilization:	first loop closed, integrator on; second loop injection off
Reference signal:	-1.902 V
First-loop gain:	-3.3 V
Last saturation event:	0d 7h 56m
Average AOM diffraction:	6.33%
Diffraction signal range:	5.74% . . . 6.82% (1.08% peak-to-peak, 32768 Hz samplingrate)

POWER NOISE		
	Photodiode A (PDA)	Photodiode B (PDB)
Average DC signal:	9.406 V	9.666 V
FILT signal range:	1.868 V . . . 1.894 V (0.002 V _{rms})	1.930 V . . . 1.937 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:	165.418 ± 0.014 um, 165.341 um . . . 165.512 um
Y position:	80.253 ± 0.029 um, 80.151 um . . . 80.414 um
Samplingrate:	32768 Hz, 32768 Hz

D A Q	
Measurement duration:	300 s = 5.0 min
Measurement start:	20. Jul 2011 23:10 CDT (21. Jul 2011 04:10 UTC, 995256651 GPS)
NDS:	10.110.140.106:8088 (v12r0)
User:	controls@11pslctrl4.local
Channels:	L1:PSL-ISS_PDA_OUT 32768 Hz, L1:PSL-ISS_PDB_OUT 32768 Hz, L1:PSL-ISS_DIFFRACTION_OUT 32768 Hz, L1:PSL-ISS_QPD_DX_OUT 32768 Hz, L1:PSL-ISS_QPD_DY_OUT 32768 Hz, L1:PSL-ISS_LOOP_STATE_OUTPUT 16 Hz, L1:PSL-ISS_REFSIGNAL_MON_OUTPUT 16 Hz, L1:PSL-ISS_GAIN 16 Hz, L1:PSL-ISS_SECONDLOOP_CLOSED 16 Hz, L1:PSL-ISS_SAT_MIN 16 Hz, L1:PSL-ISS_SAT_HOUR 16 Hz, L1: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 v0.3-12-g5bf8f1d, 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>	