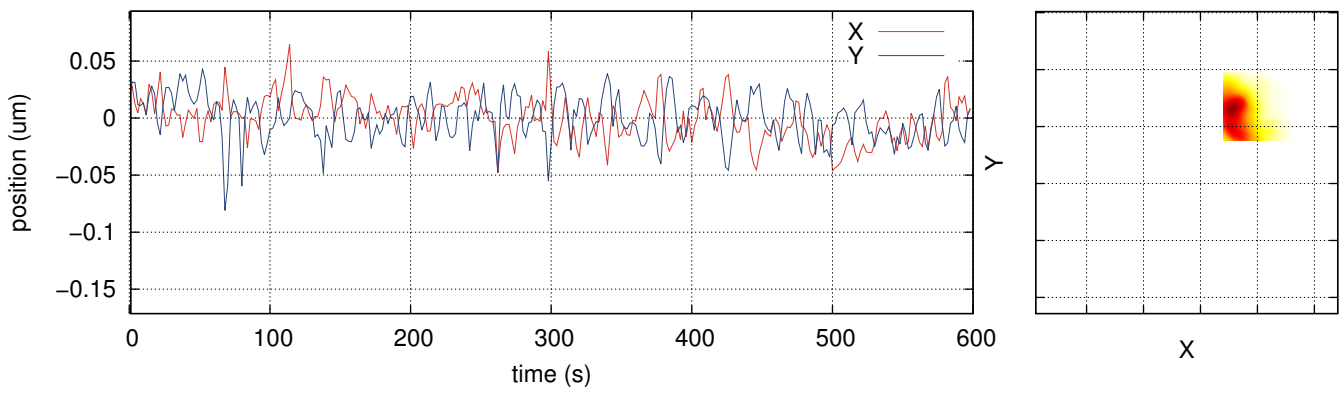
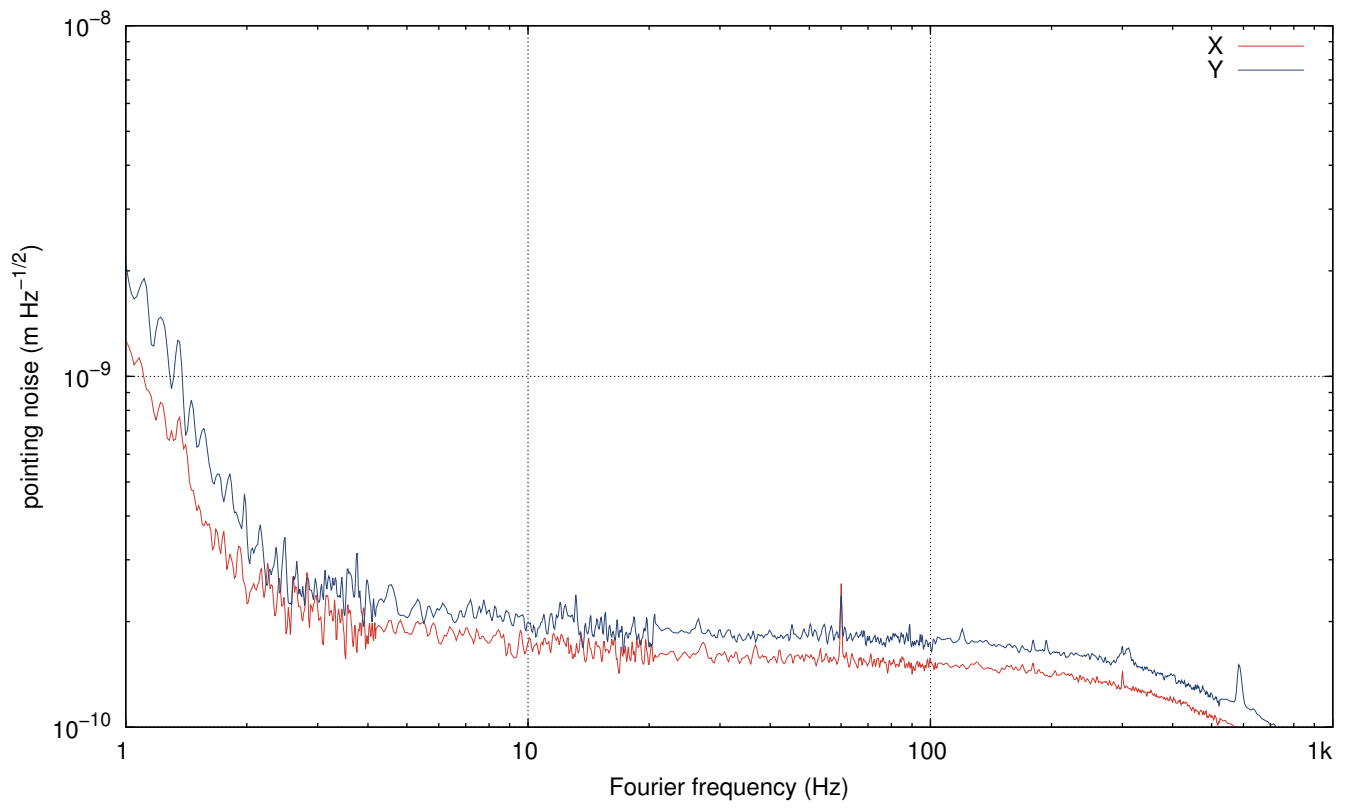


POWER STABILIZATION	
Measurement:	600 s = 10.0 min, 07. Jan 2015 14:20 PST
Stabilization:	first loop closed, integrator on; second loop injection off
Reference signal:	-2.172 V
First-loop gain:	10.0 dB
Last saturation event:	2d 0h 19m
Average AOM diffraction:	8.16%
Diffraction signal range:	7.90% . . . 8.61% (0.72% peak-to-peak, 32768 Hz samplingrate)

POWER NOISE		
	Photodiode A (PDA)	Photodiode B (PDB)
Average DC signal:	10.988 V	11.459 V
FILT signal range:	2.189 V . . . 2.206 V (0.001 V _{rms})	2.186 V . . . 2.444 V (0.012 V _{rms})
FILT samplingrate:	32768 Hz	32768 Hz
Photocurrent:	3.3 mA	3.5 mA
Relative shot noise level:	9.84e-09 Hz ^{-1/2}	9.63e-09 Hz ^{-1/2}



POSITION FLUCTUATIONS	
X position:	18.527 ± 0.021 um, 18.439 um . . . 18.620 um
Y position:	-21.843 ± 0.021 um, -22.014 um . . . -21.779 um
Samplingrate:	32768 Hz, 32768 Hz

D A Q	
Measurement duration:	600 s = 10.0 min
Measurement start:	07. Jan 2015 14:20 PST (07. Jan 2015 22:20 UTC, 1104704438 GPS)
NDS:	h1nds1:8088 (v12r0)
User:	controls@opsws1
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 v0.7, 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>	