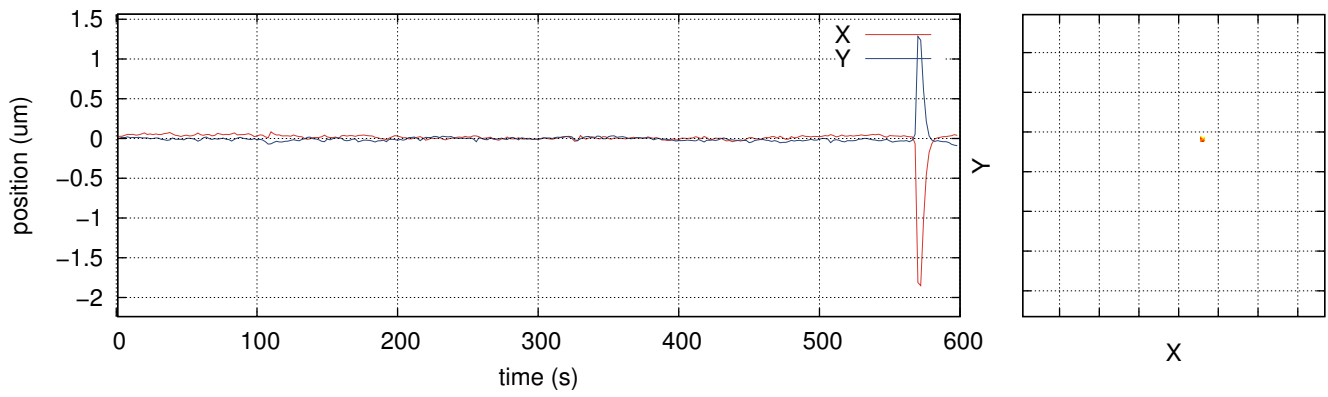
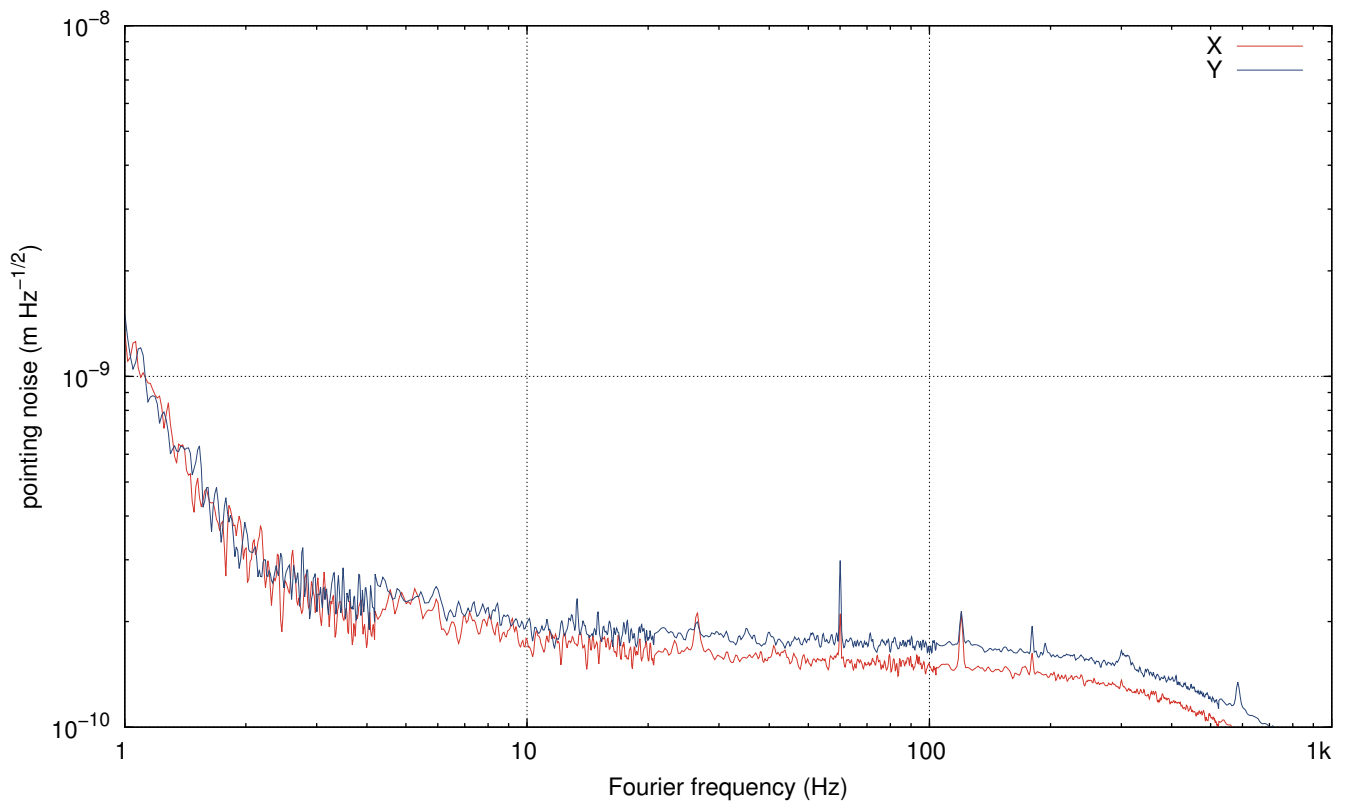


POWER STABILIZATION	
Measurement:	600 s = 10.0 min, 27. Jan 2015 13:53 PST
Stabilization:	first loop closed, integrator on; second loop injection off
Reference signal:	-2.120 V
First-loop gain:	6.0 dB
Last saturation event:	0d 0h 14m
Average AOM diffraction:	5.65%
Diffraction signal range:	0.72% . . . 23.94% (23.22% peak-to-peak, 32768 Hz samplingrate)

POWER NOISE		
	Photodiode A (PDA)	Photodiode B (PDB)
Average DC signal:	10.529 V	10.716 V
FILT signal range:	-19.686 V . . . 15.678 V (0.351 V _{rms})	-18.843 V . . . 15.324 V (0.343 V _{rms})
FILT samplingrate:	32768 Hz	32768 Hz
Photocurrent:	3.2 mA	3.2 mA
Relative shot noise level:	1.01e-08 Hz ^{-1/2}	9.96e-09 Hz ^{-1/2}



POSITION FLUCTUATIONS	
X position:	19.277 ± 0.170 um, 17.036 um . . . 19.396 um
Y position:	-15.084 ± 0.115 um, -15.200 um . . . -13.521 um
Samplingrate:	32768 Hz, 32768 Hz

D A Q	
Measurement duration:	600 s = 10.0 min
Measurement start:	27. Jan 2015 13:53 PST (27. Jan 2015 21:53 UTC, 1106430805 GPS)
NDS:	h1nds1:8088 (v12r1)
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>	