



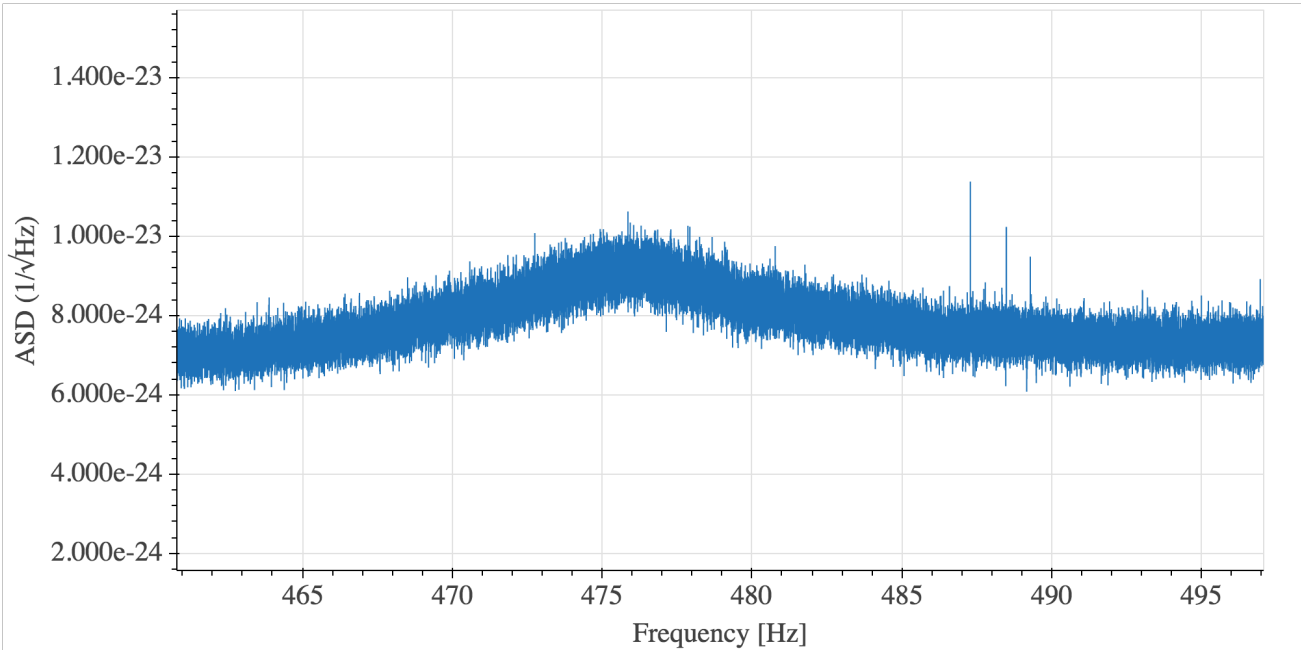
STOCHASTIC-DETCCHAR UPDATES: MAY 1

Rich Ormiston

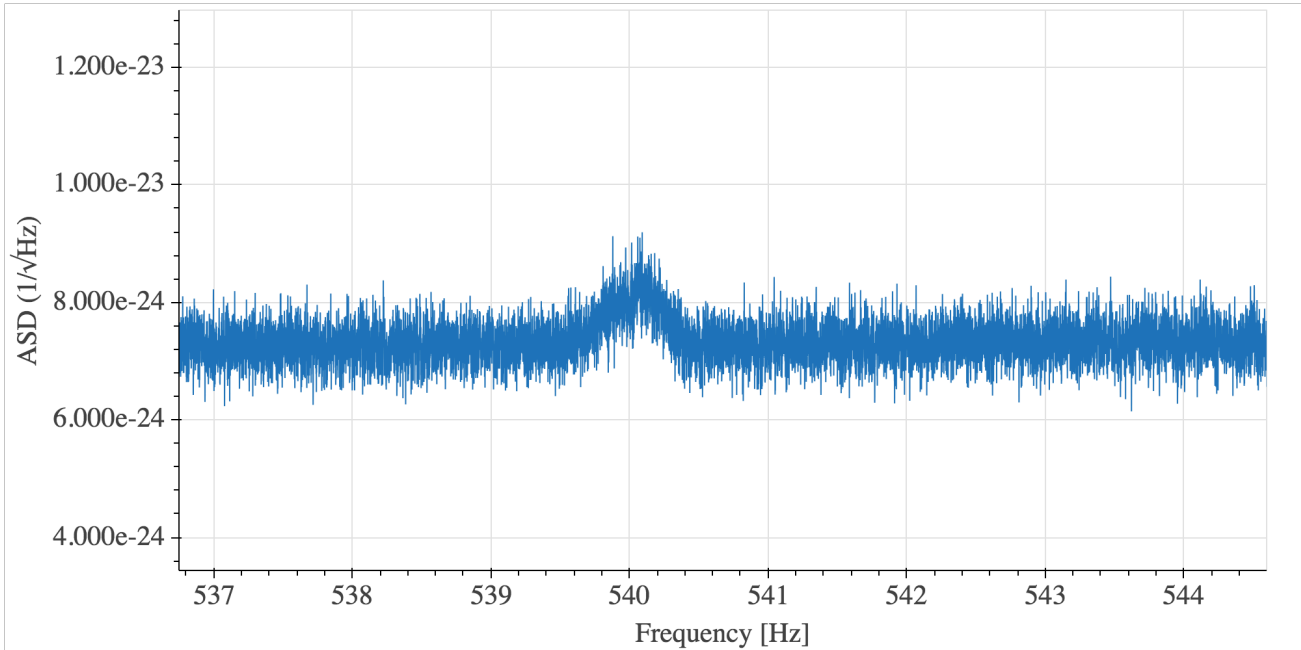
SUMMARY

- Stochastic Detchar Repo [here](#)
- Detchar Minutes ([April 22](#))
- Wandering line from squeezer at LHO ([48856](#))
- 540Hz & 465-485Hz bump at LHO ([48850](#))
- 70Hz glitch at LLO from Nikon ([45468](#))
- Lots of wind ([48830](#), [48829](#)) and whistles at LHO

LHO - BUMPS (540 & 475 HZ)



476.62	IMC-WFS_B_Q_PIT_OUT_DQ (0.70)	IMC-WFS_B_Q3_ERR_DQ (0.70)	IMC-DOF_4_P_IN1_DQ (0.68)	IMC-WFS_B_DC_PIT_OUT_DQ (0.68)	IMC-WFS_B_Q4_ERR_DQ (0.68)
476.75	IMC-WFS_B_Q_PIT_OUT_DQ (0.78)	PEM-CS_ACC_PSL_TABLE1_Z_DQ (0.76)	IMC-WFS_B_Q3_ERR_DQ (0.76)	IMC-WFS_A_DC_PIT_OUT_DQ (0.75)	IMC-DOF_2_P_IN1_DQ (0.75)

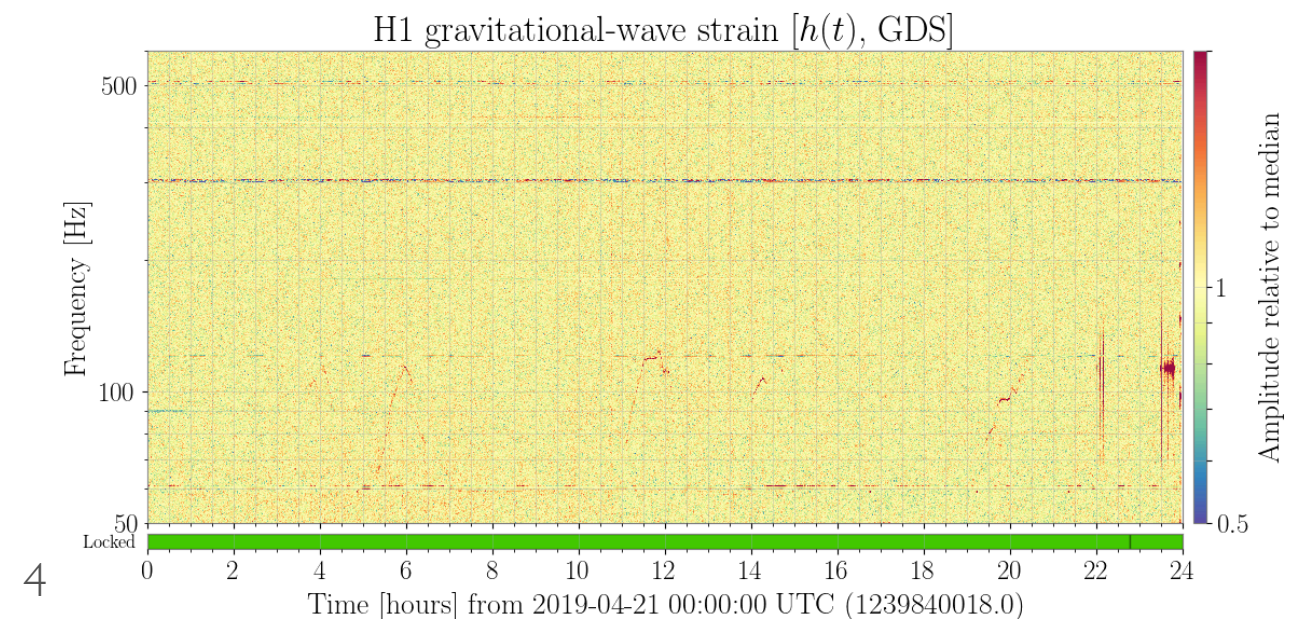
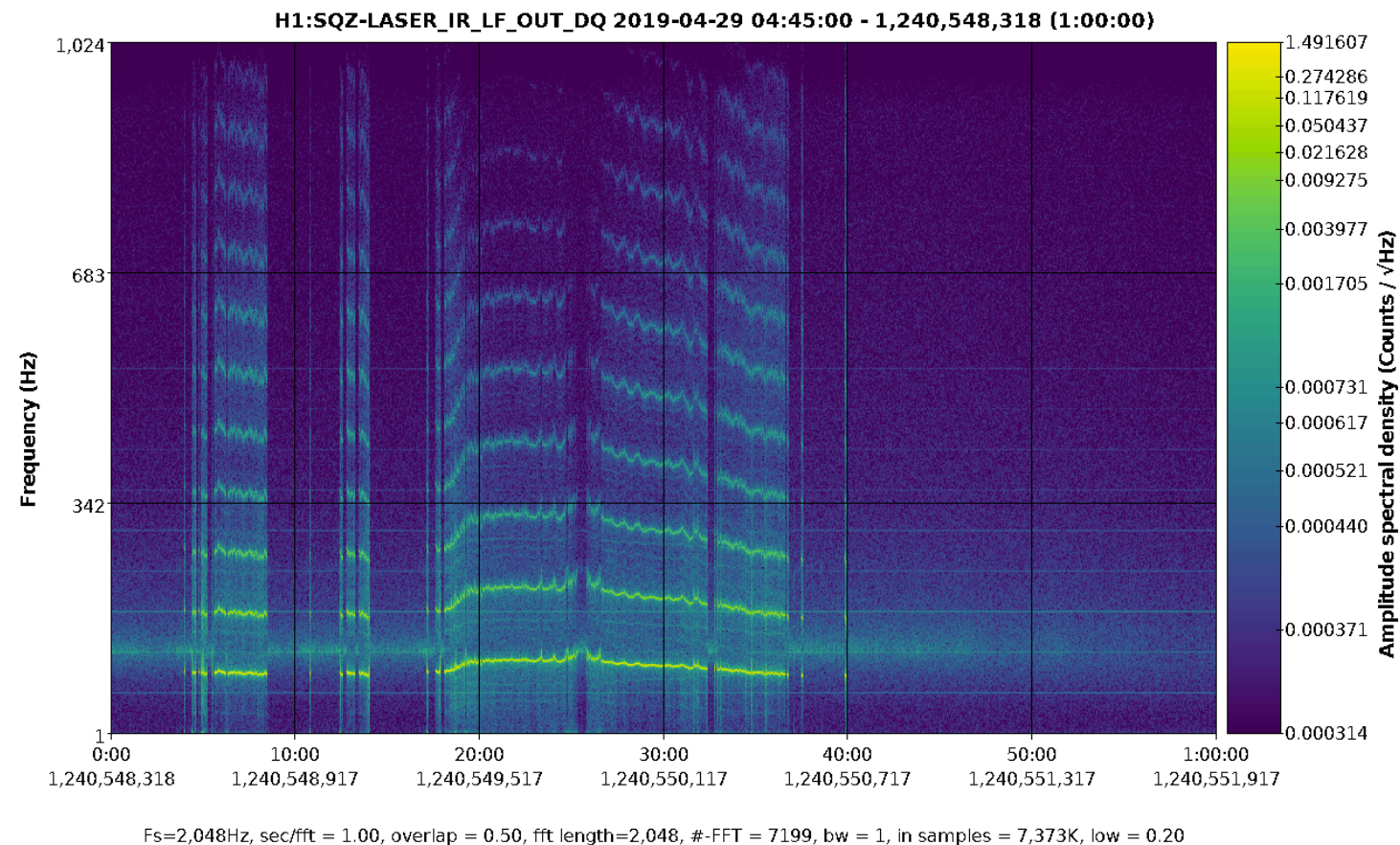


540.12	HPI-HAM1_TT_L4C_Z_DQ (0.79)	ISI-HAM6_GS13INF_H1_IN1_DQ (0.78)	HPI-HAM1_TT_L4C_RX_DQ (0.78)	ISI-HAM6_BLND_GS13RZ_IN1_DQ (0.77)	PEM-CS_ADC_5_18_2K_OUT_DQ (0.77)
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aLOG 48850

LHO - WANDERING LINES

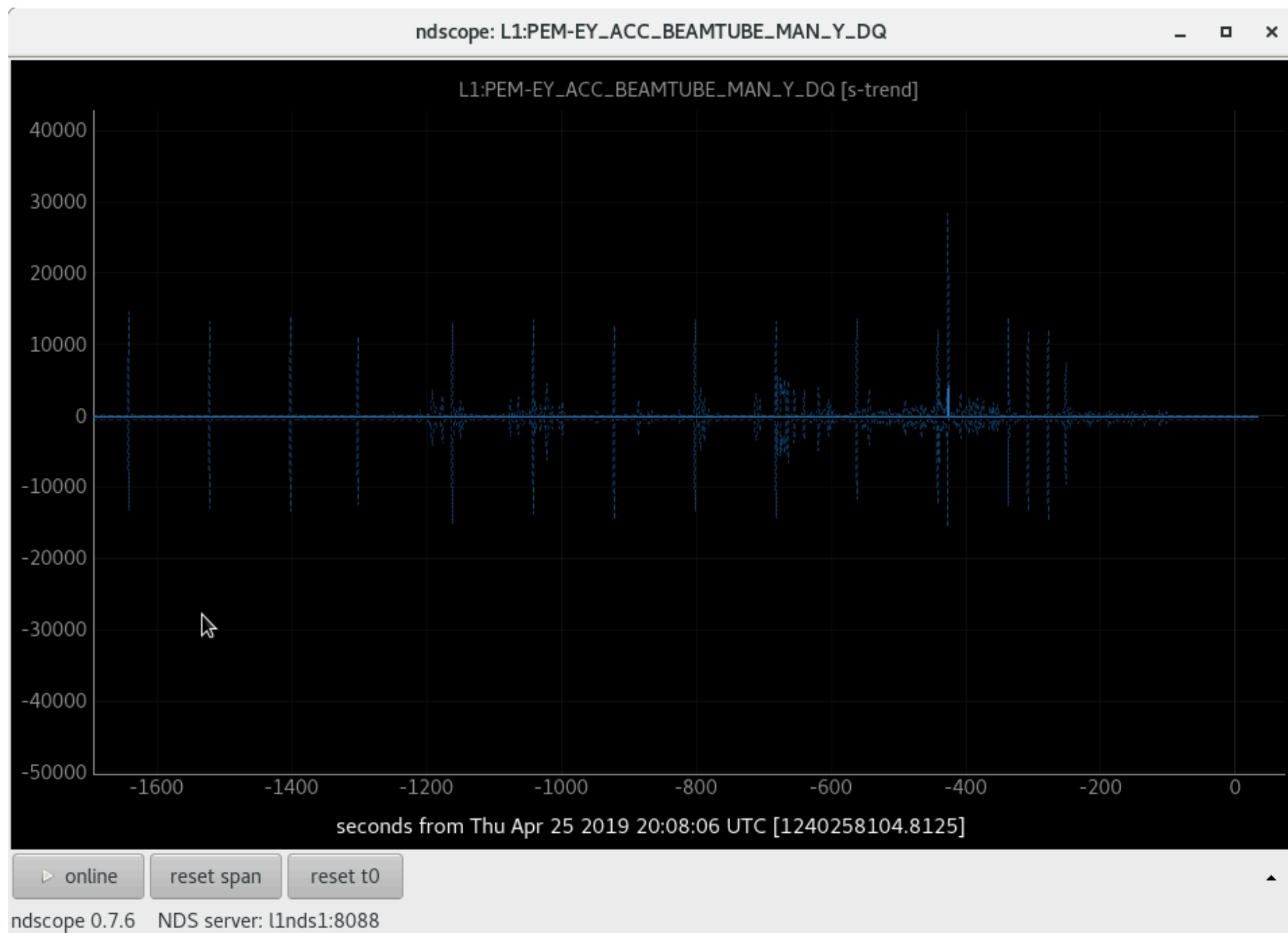
The strong wandering lines in $h(t)$ caused by the squeezer are becoming more frequent and more severe. It comes and goes, both in $h(t)$ and in the squeezer channels. In the squeezer, it's an equally spaced comb of lines, with the first wandering from about 80 to 140 Hz. The line comes and goes quite suddenly. ([48892](#))



LHO - EXTRA

- A lot of whistles were seen on all days of observing barring Tuesday and Thursday. They're correlated with motion in the IMC and we observe a simultaneous increase in variance of the VCO frequency
- [Table of Violin Modes](#)
- High winds affecting lock

LLO - 70 HZ GLITCH



Nikon Camera causing 70Hz glitch ([aLOG 45468](#))

LLO EXTRA

- [Stochmon](#) coherence not flat
- 100hr lock!
- 2 event candidates!
- Good weather. Range $\sim 140\text{Mpc}$
- LI Violin Modes Tables ([aLOG](#), [wiki](#))