

KAGRA detector status

Update of the KAGRA PEM

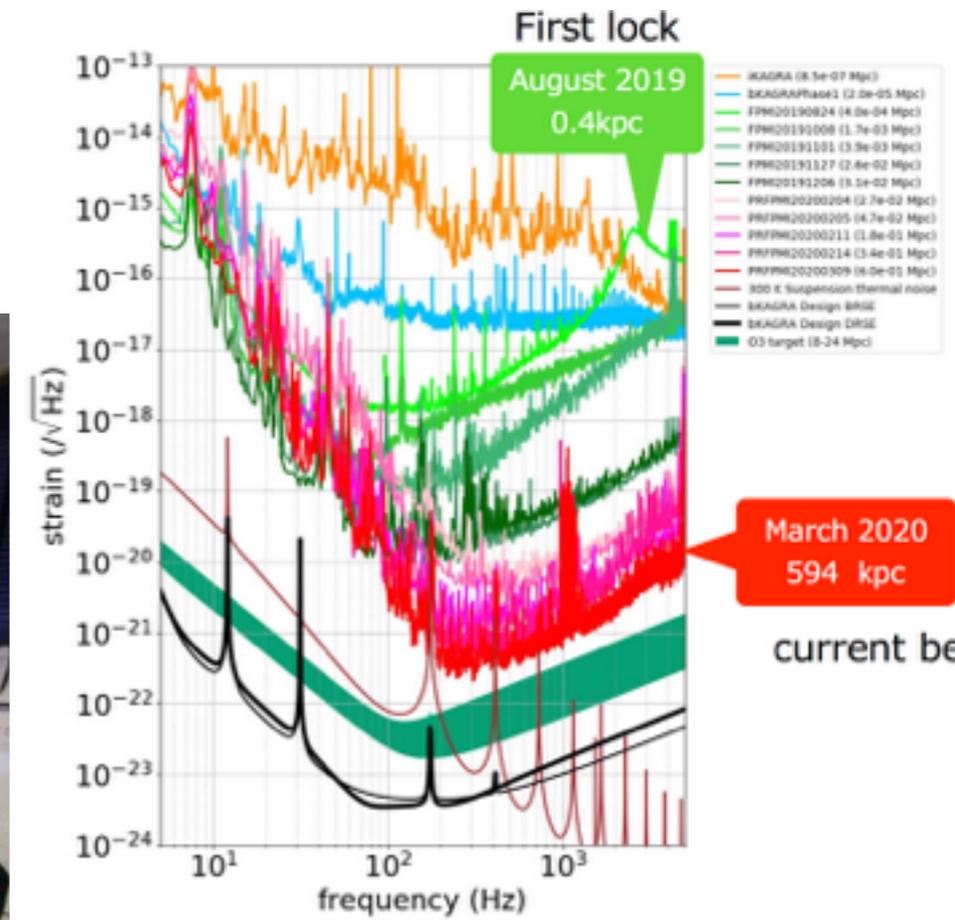
Virgo-KAGRA PEM meeting

2020/03/27

Takaaki Yokozawa

After last meeting

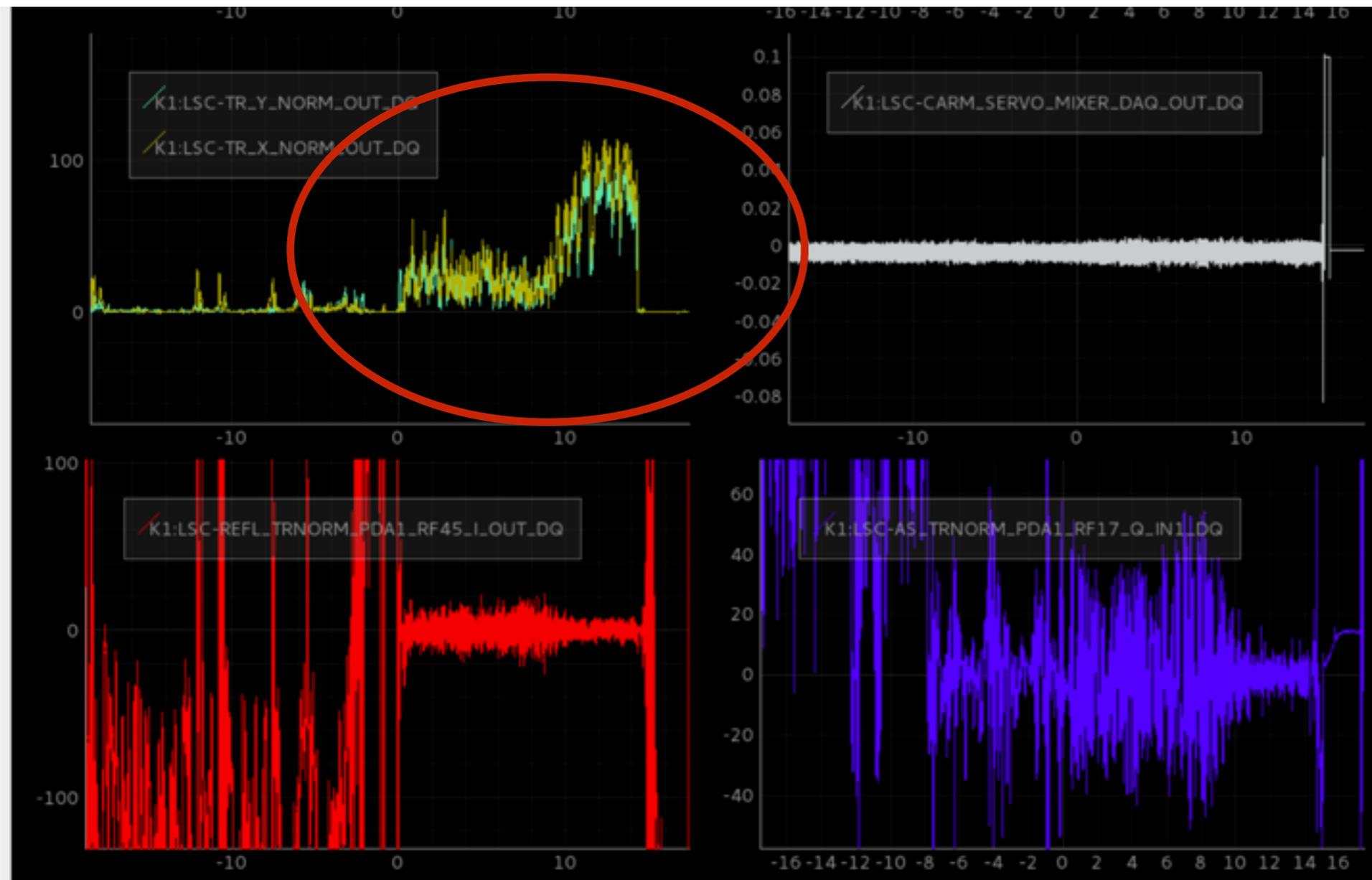
- Observation run (25th Feb. - 10th Mar.)
- Duty cycle 74.7%(locked), 51.4%(observation)
- Longest lock duration 10 h 28 m
- The BNS range reached 594 kpc at maximum



LIGO Hanford SCIENCE Duration: 5d 18:37:00 (prev: nobuff) Last updated at 2:19	LIGO Livingston SCIENCE Duration: 1d 16:58:59 (prev: nobuff) Last updated at 2:19	Virgo SCIENCE Duration: 1d 01:30:23 (prev: nobuff) Last updated at 2:19	Kagra SCIENCE Duration: 5d 01:40:59 (prev: nobuff) Last updated at 2:19	Sun Mar 01 2020 2:19:59 1267032017
DMT 11 OK Last updated at 2:19	Low-latency Data 46 OK Last updated at 2:19	LIGO Data Replicator 14 OK Last updated at 2:19	DetChar Summary 23 OK Last updated at 2:19	DetChar Jobs 16 OK Last updated at 2:19
GraceDB	LVAAlert	GraceDB	DQSegDB	NDS

After last meeting

- Commissioning break (10th Mar. - now)
- An attempt to lock the DRFPMI is ongoing
- Better alignment trial, alignment sensing and control implementation
- Noise budget

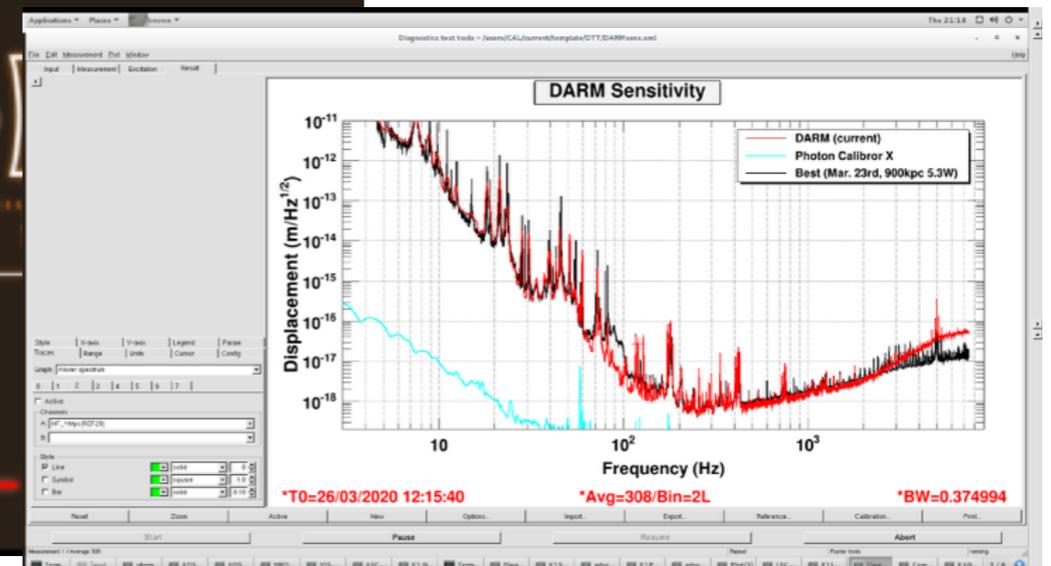
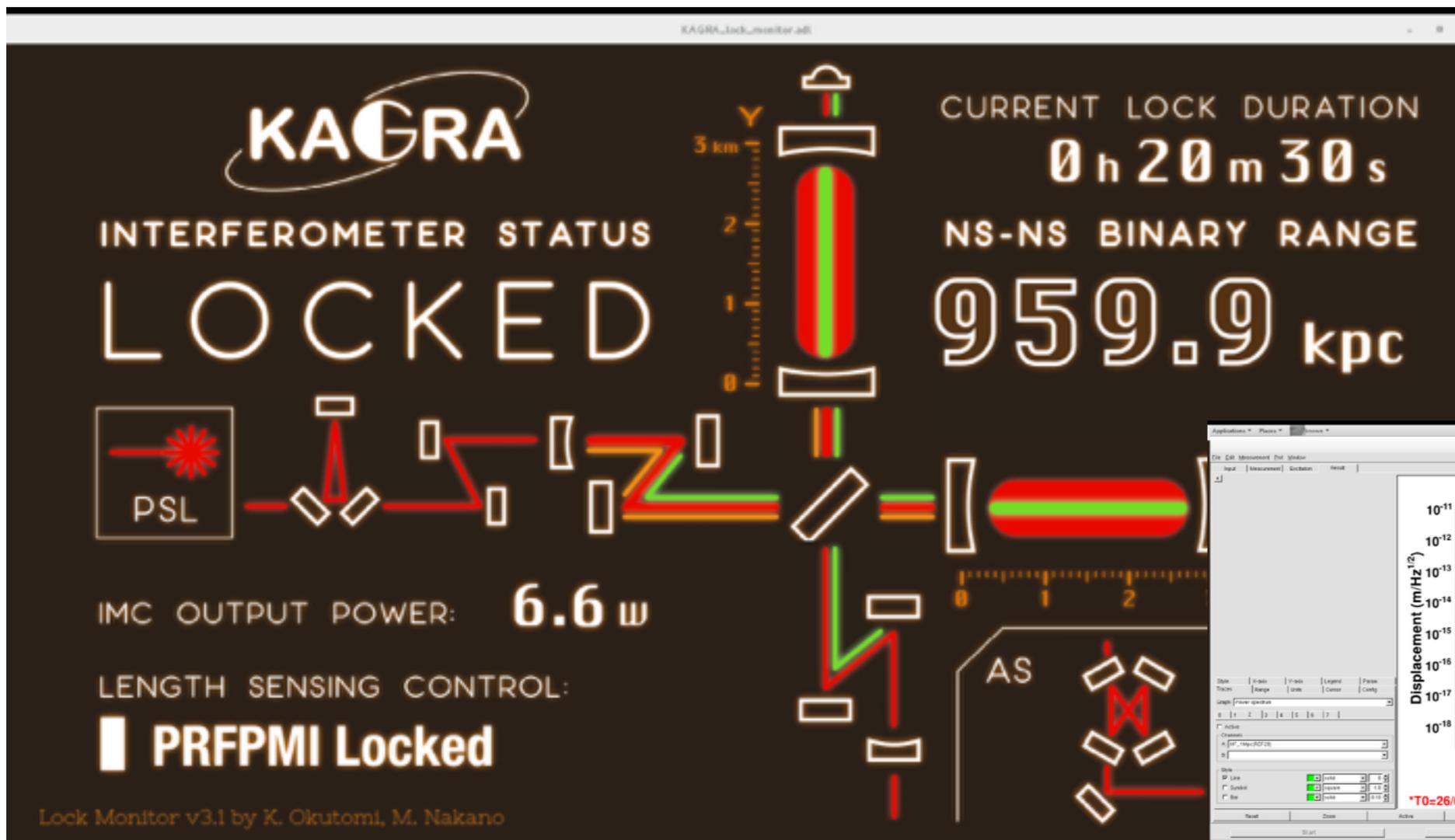


- Transmittance light power
- Blending IR+green

After last meeting

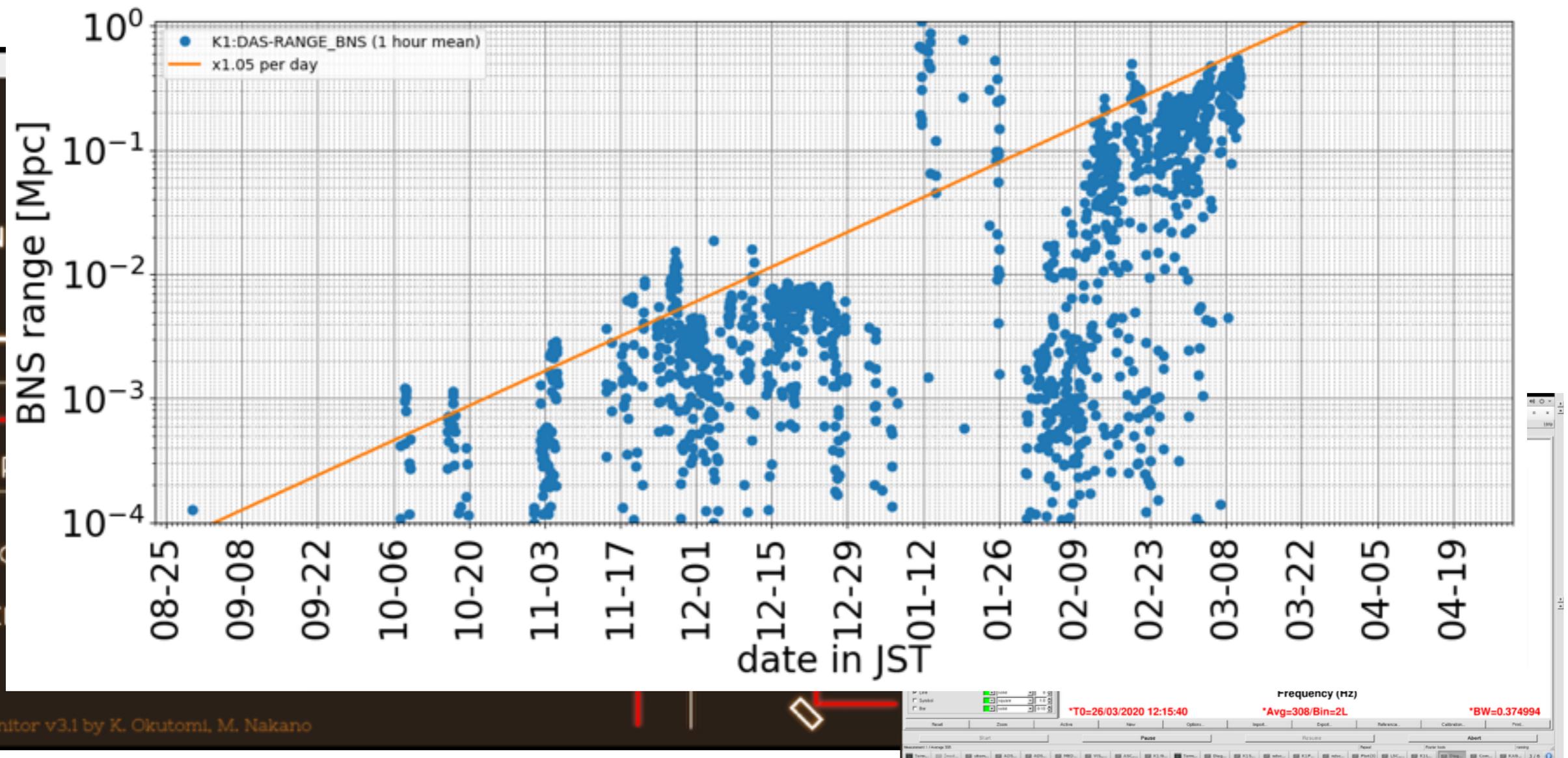
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- Now 970 kpc at maximum with PRFPMI!



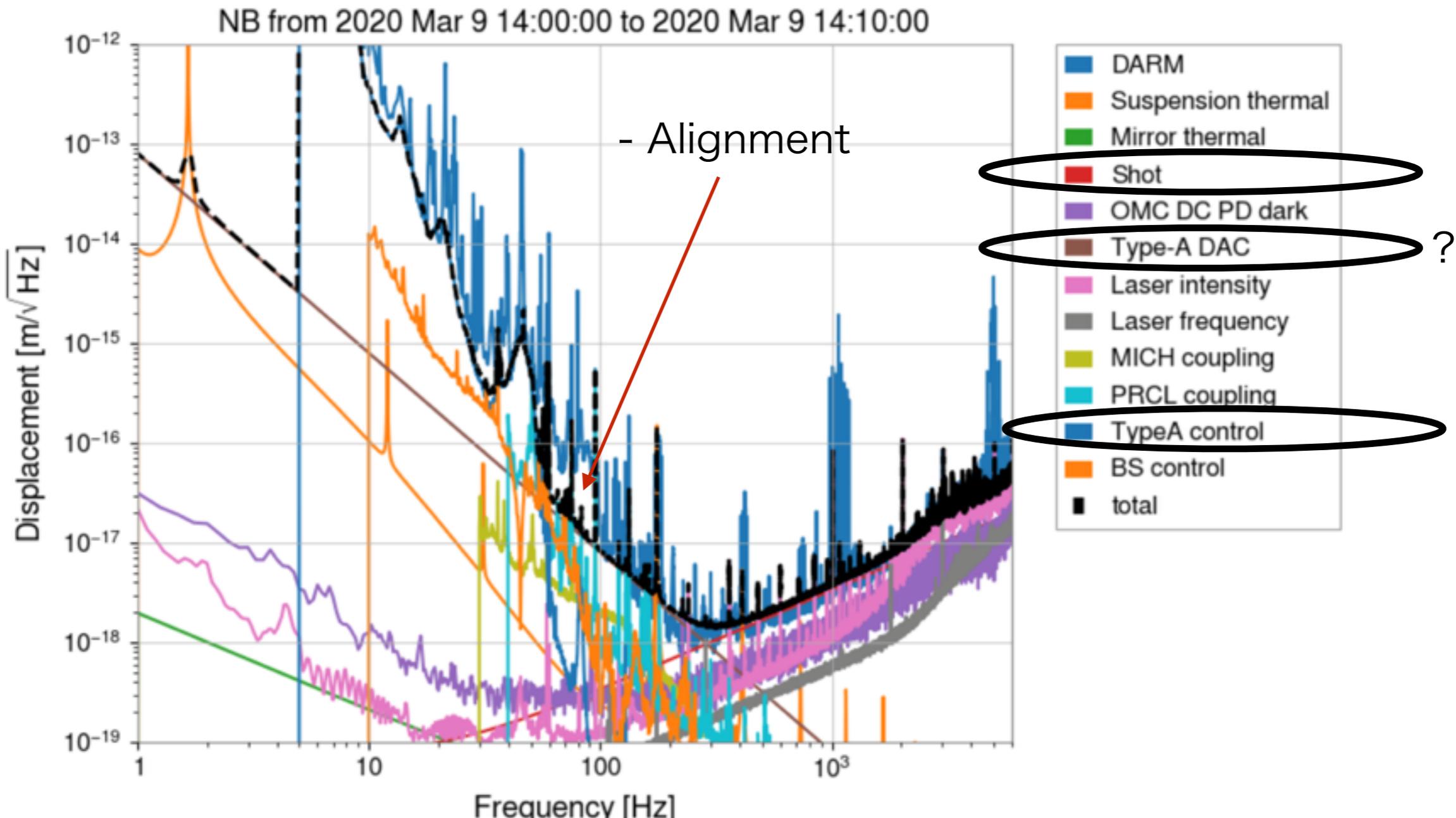
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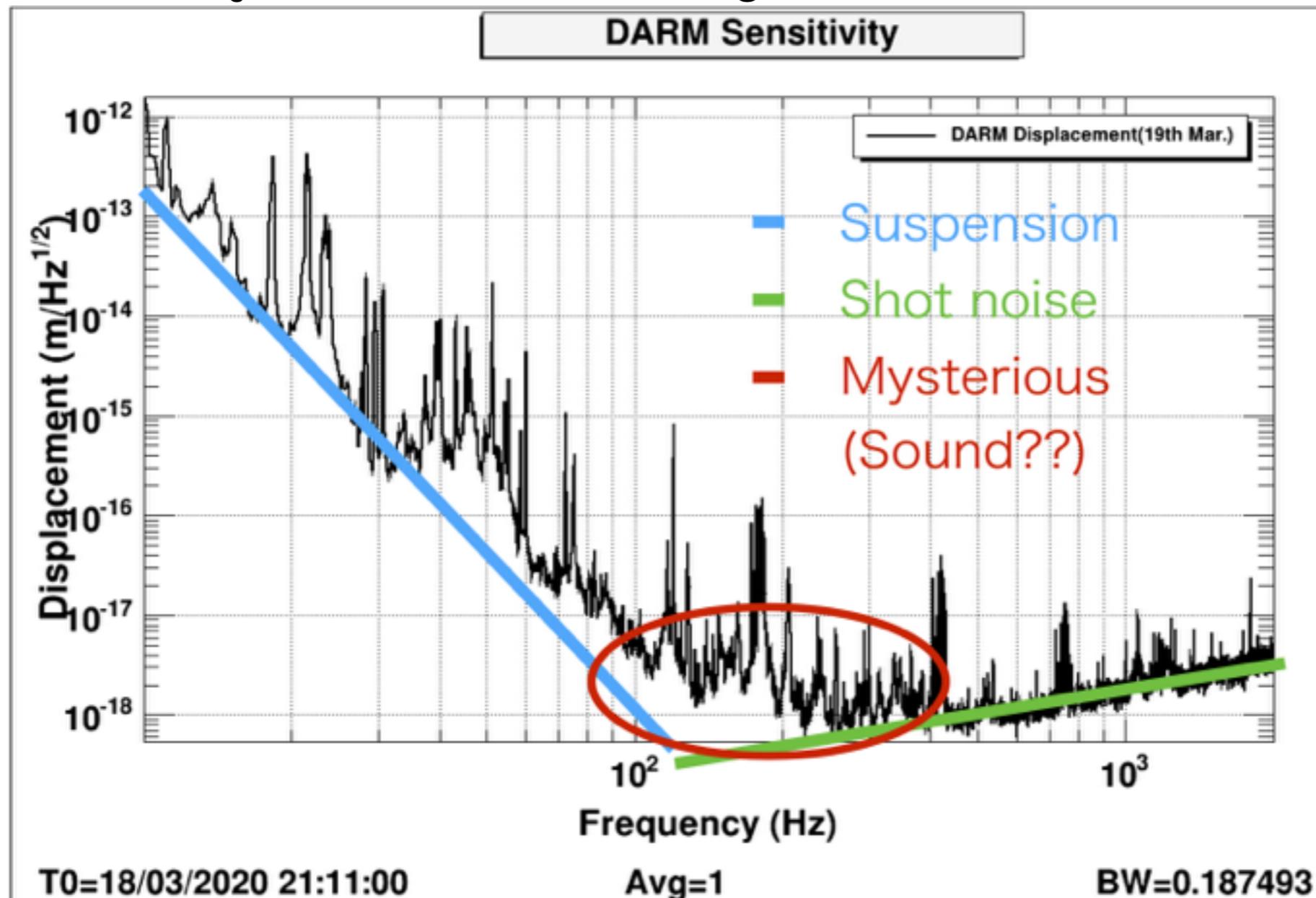
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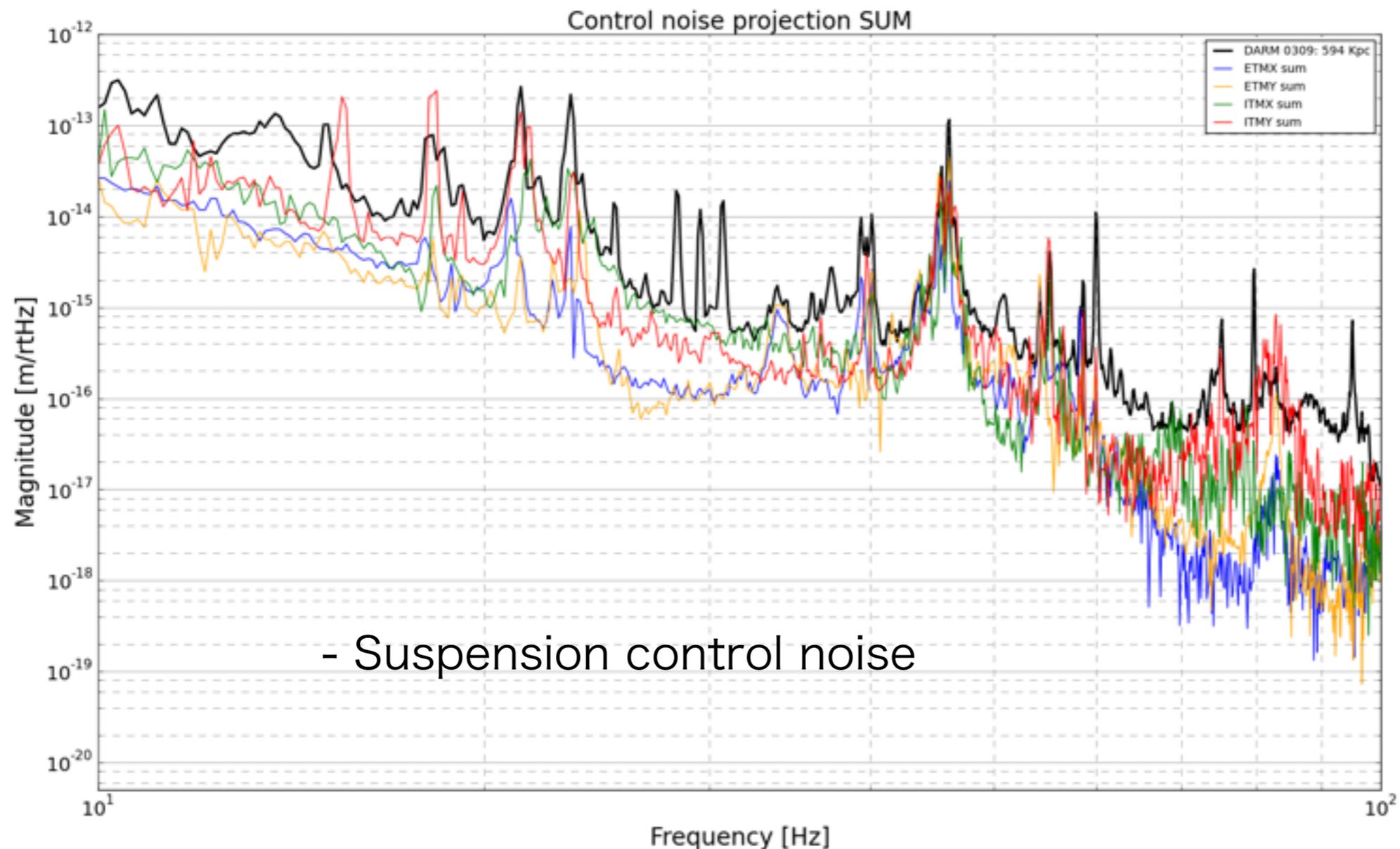
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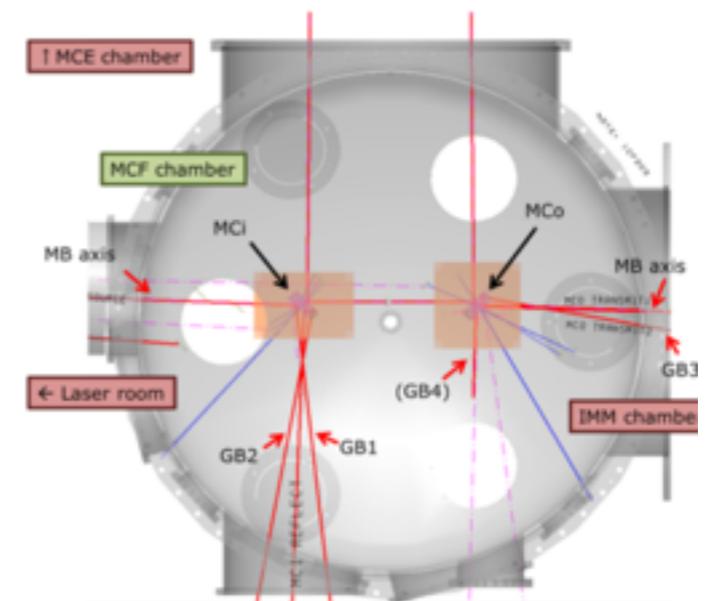
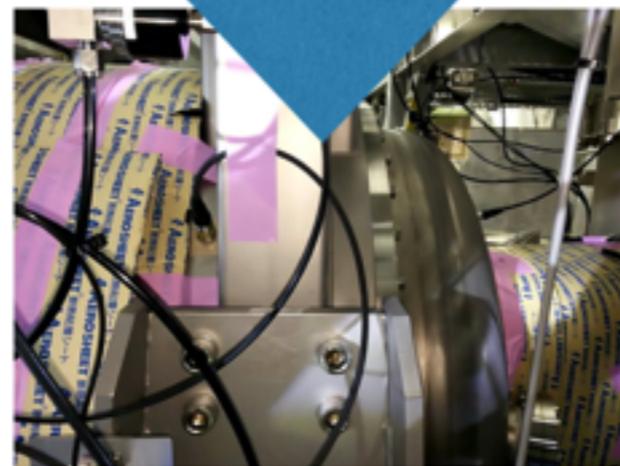
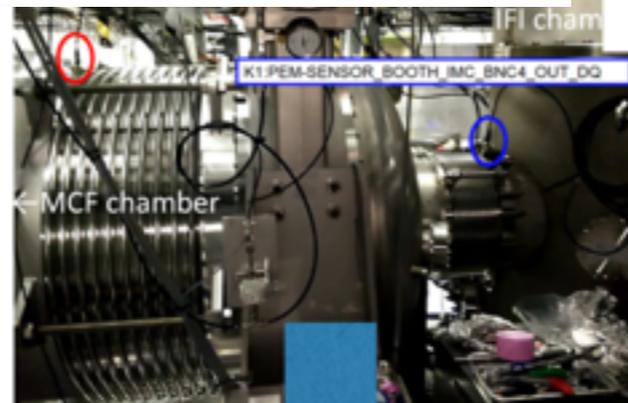
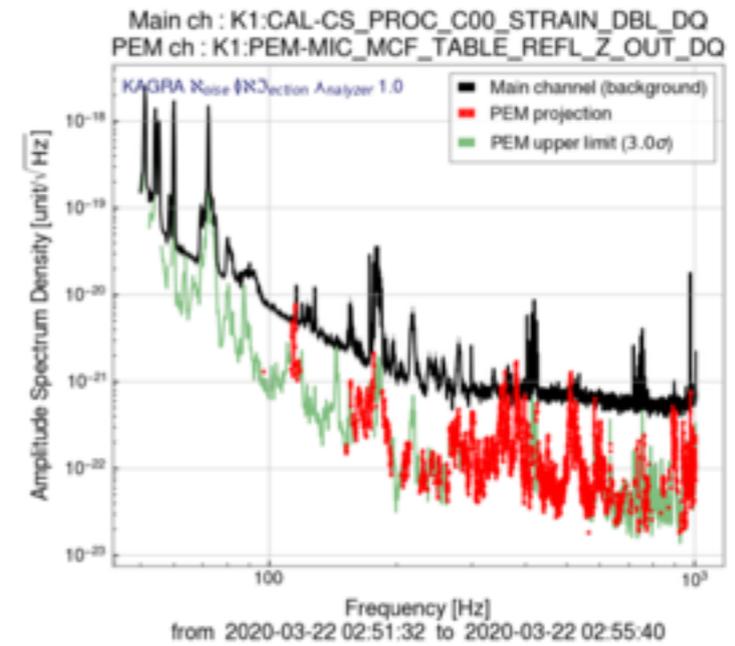
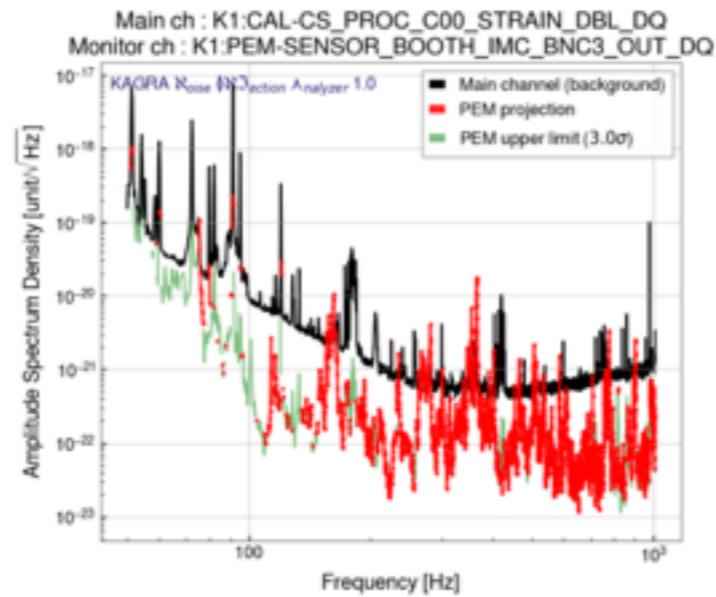
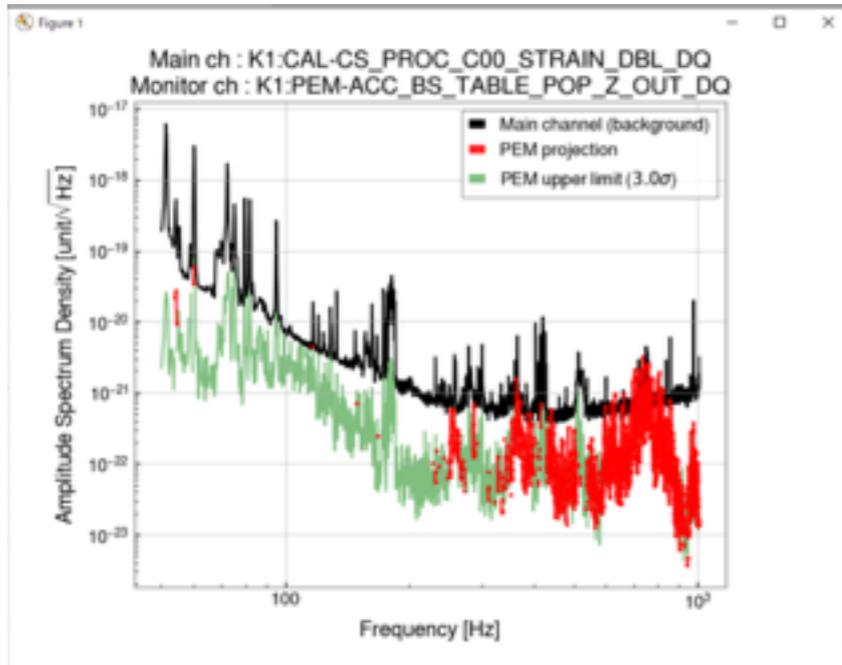
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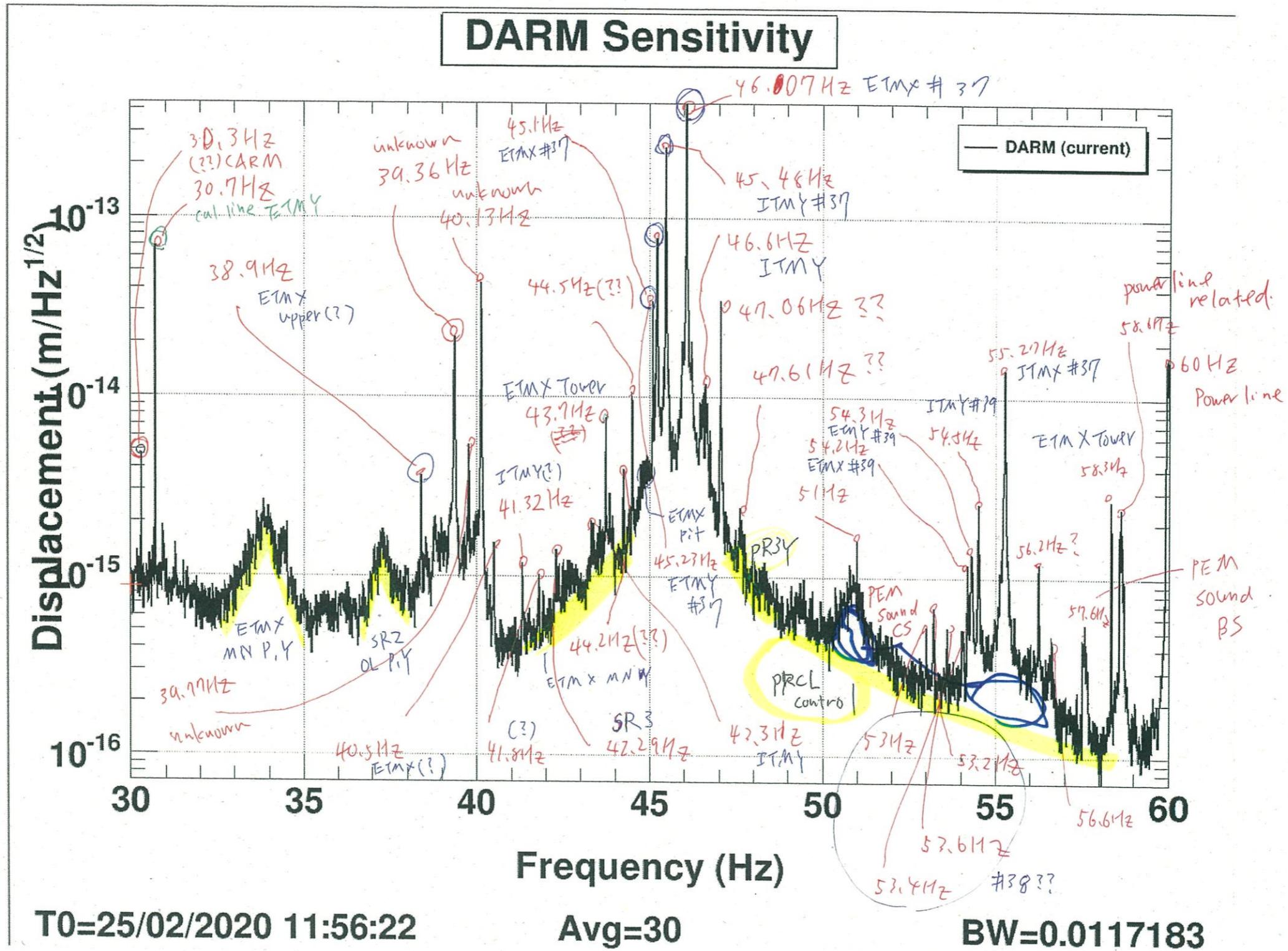
Acoustic injection and hammering test

- The detail will be reported by Washimi-san

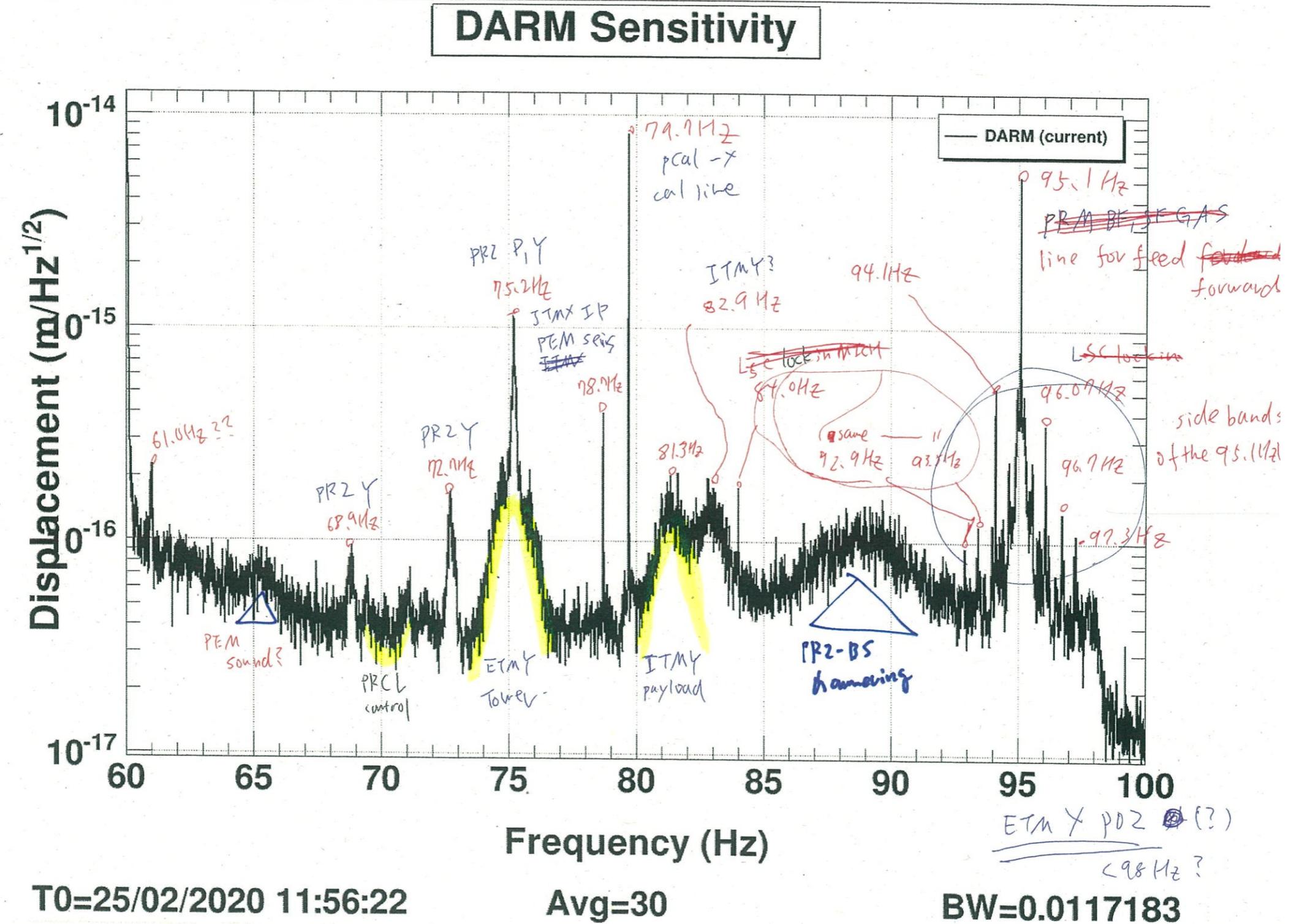


Backups

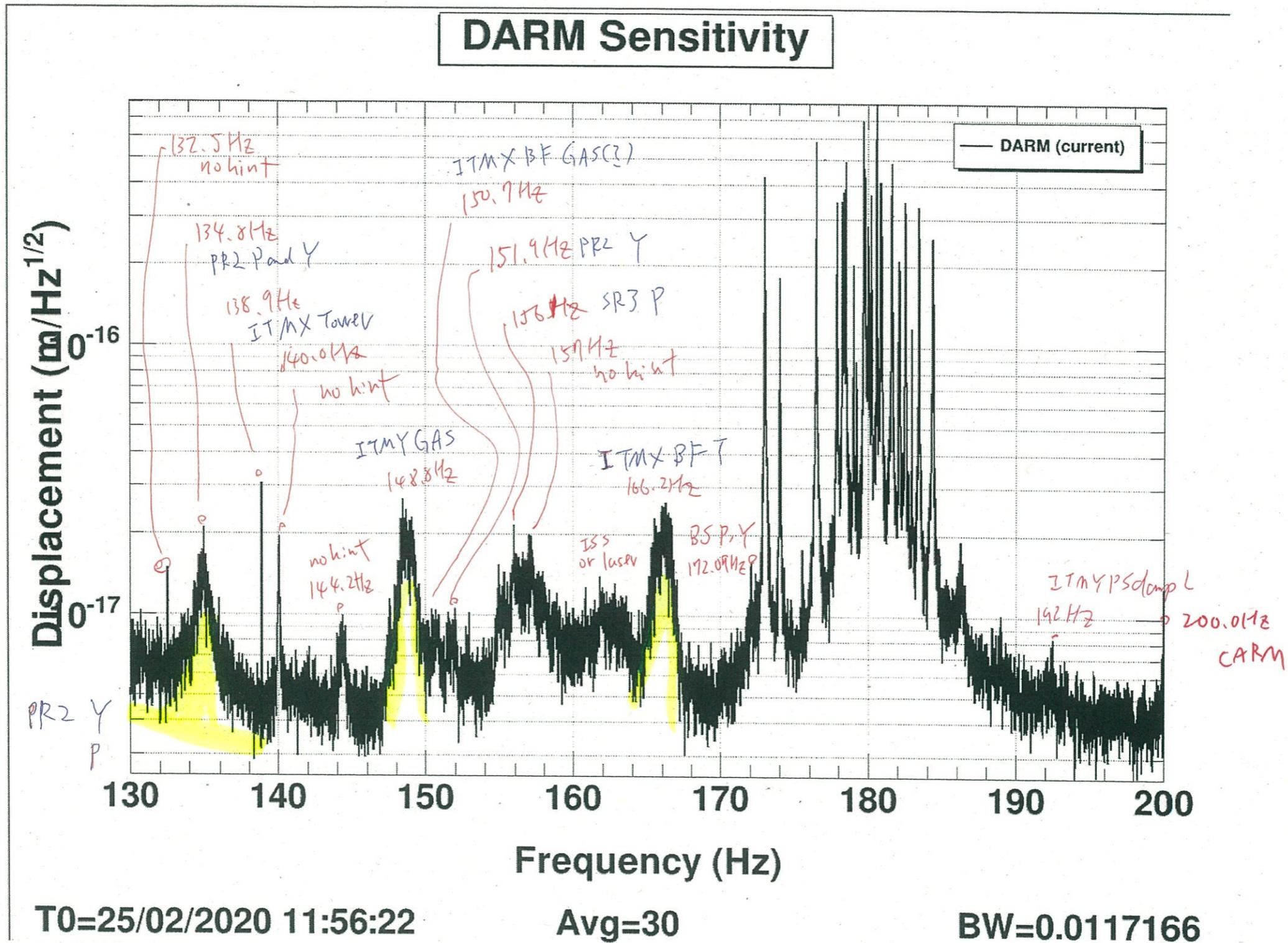
Peak identification



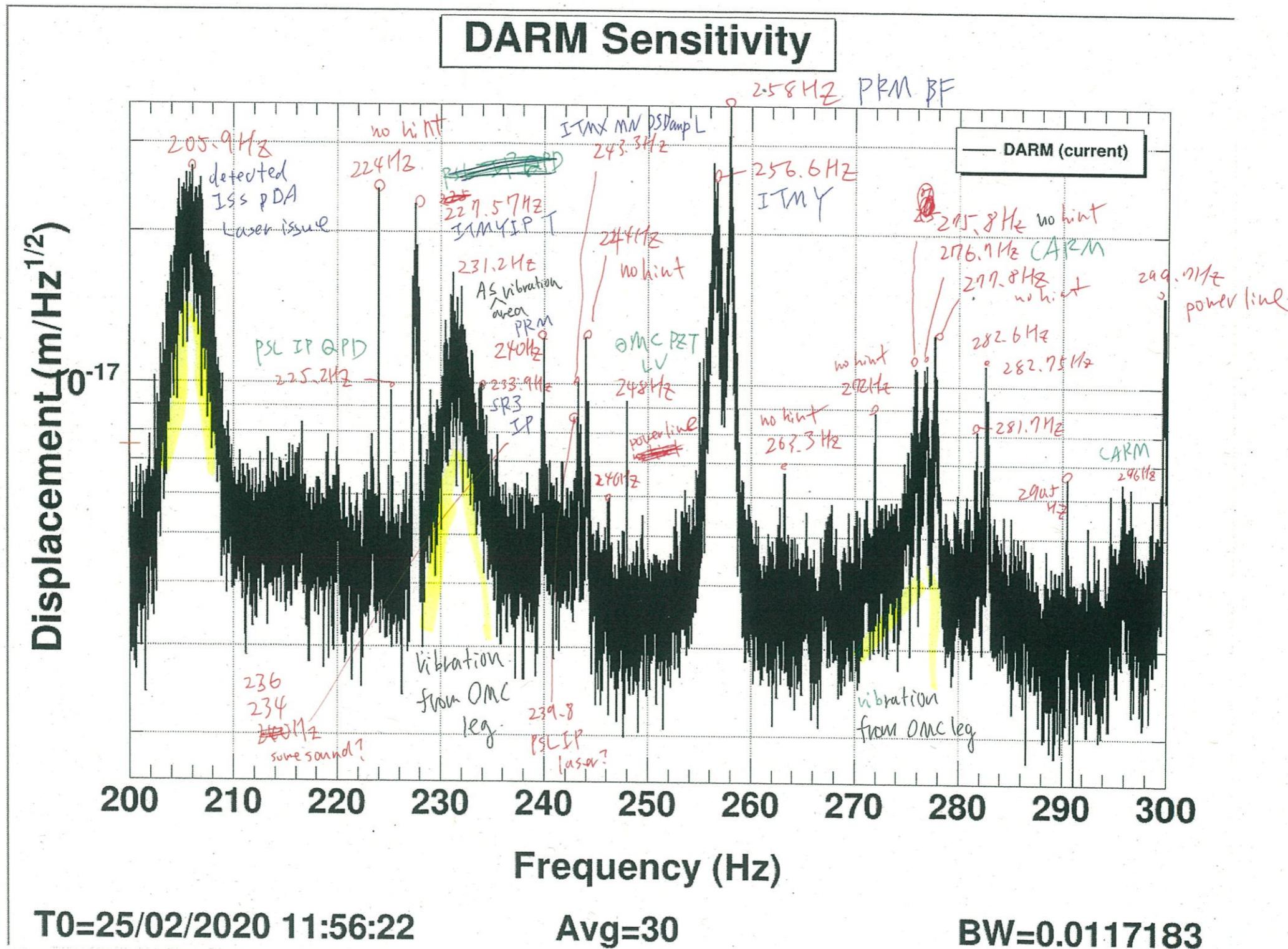
Peak identification



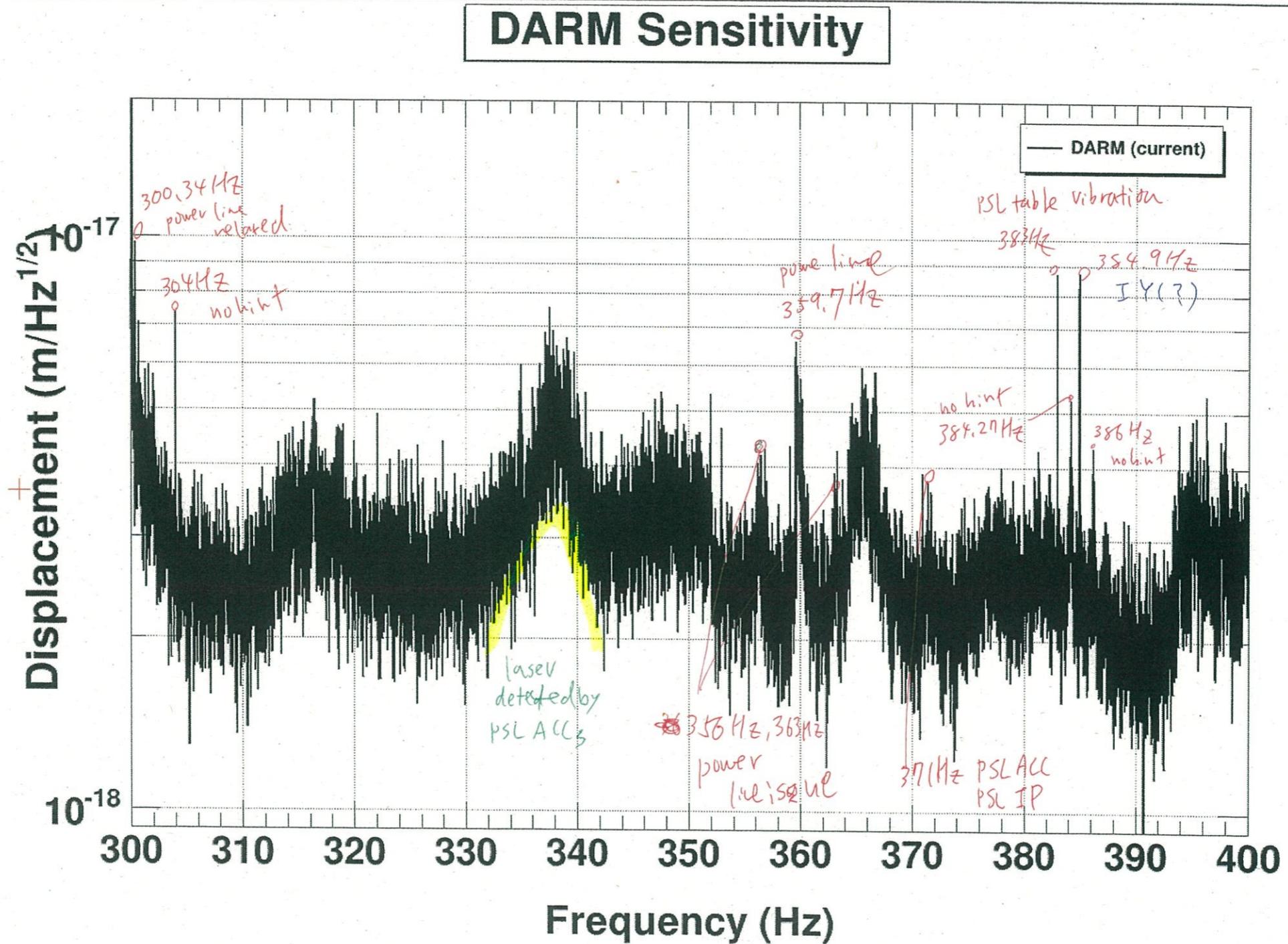
Peak identification



Peak identification



Peak identification



T0=25/02/2020 11:56:22

Avg=30

BW=0.0117183

Peak identification

