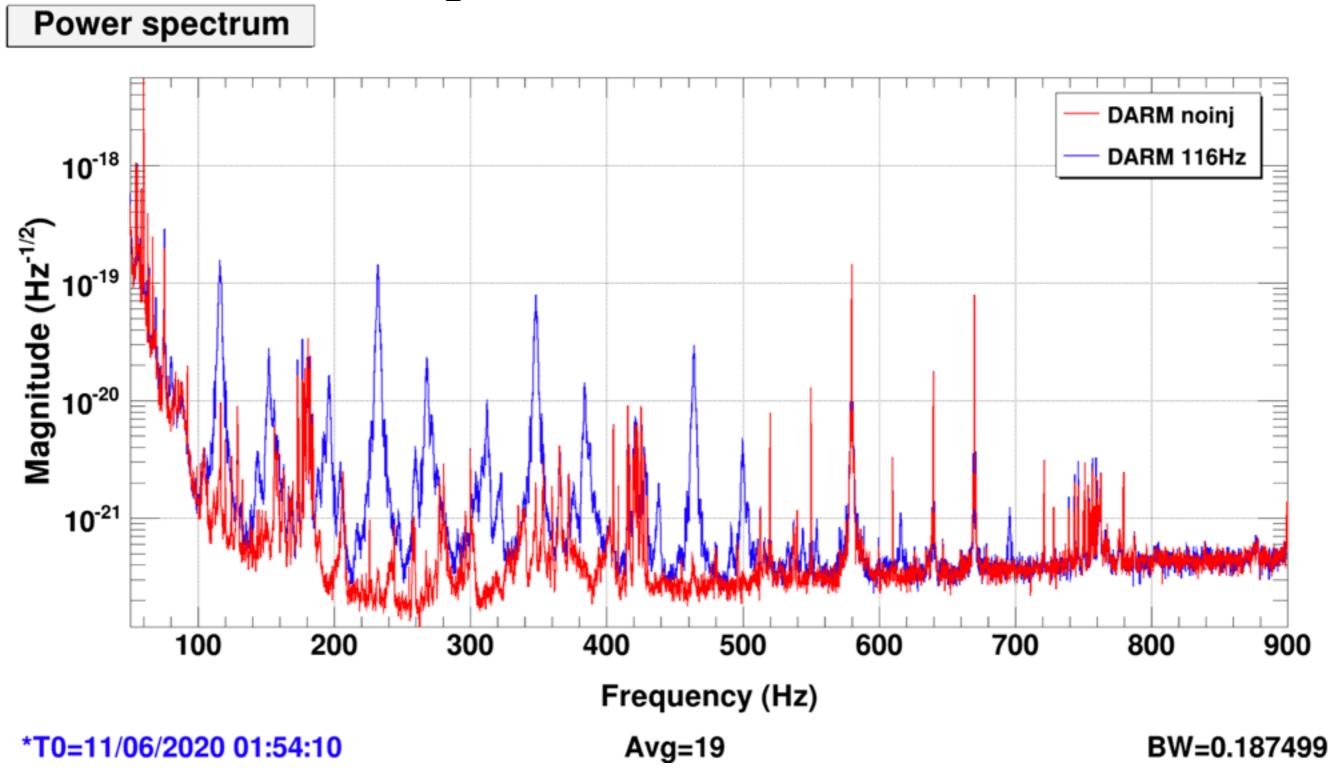
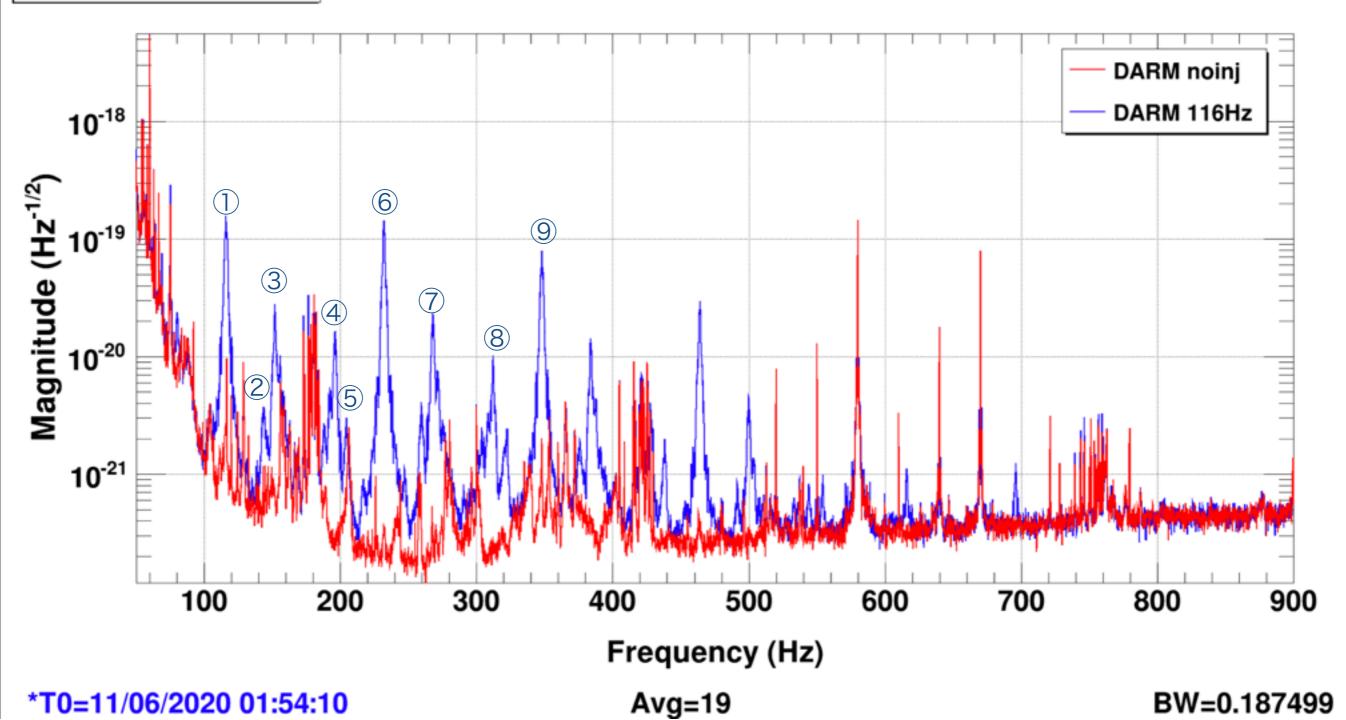
Acoustic injection 116Hz REFL table analysis

PEM meeting 2020/06/12 Takaaki Yokozawa

- We performed the acoustic injection to REFL table and PSL room
 - The detail will be described by Washimi-san
 - Swept sine injection
 - Amplitude linearity check
 - White noise injection
- I focused the 116Hz acoustic injection to REFL table
 - Large up/down frequency converted noise was detected



Power spectrum



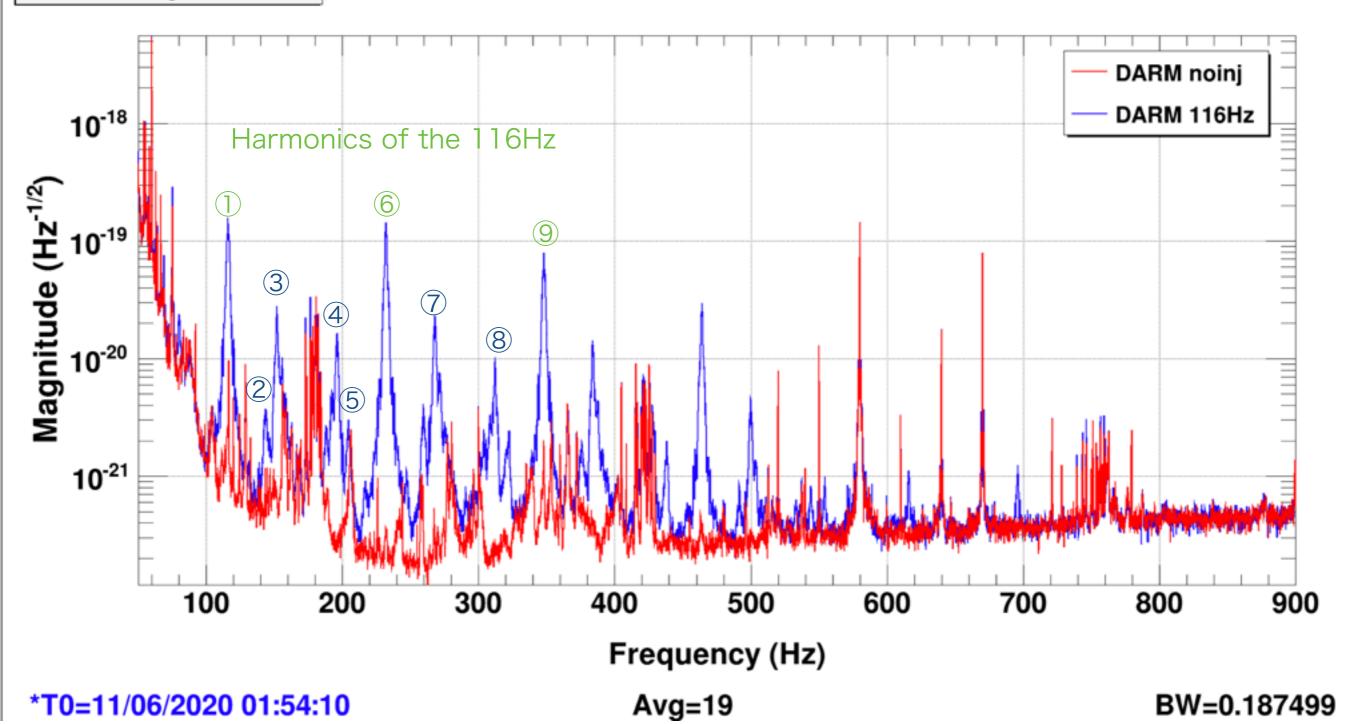
1) 116Hz 2) 144Hz 3) 152Hz (There are 156, 158Hz in noinj) 4) 188, 192, 196Hz

⑤204Hz (There are 206Hz in noinj) ⑥232Hz ⑦259.5, 268, 271, 275Hz ⑧312, 322Hz

9348Hz

4

Power spectrum

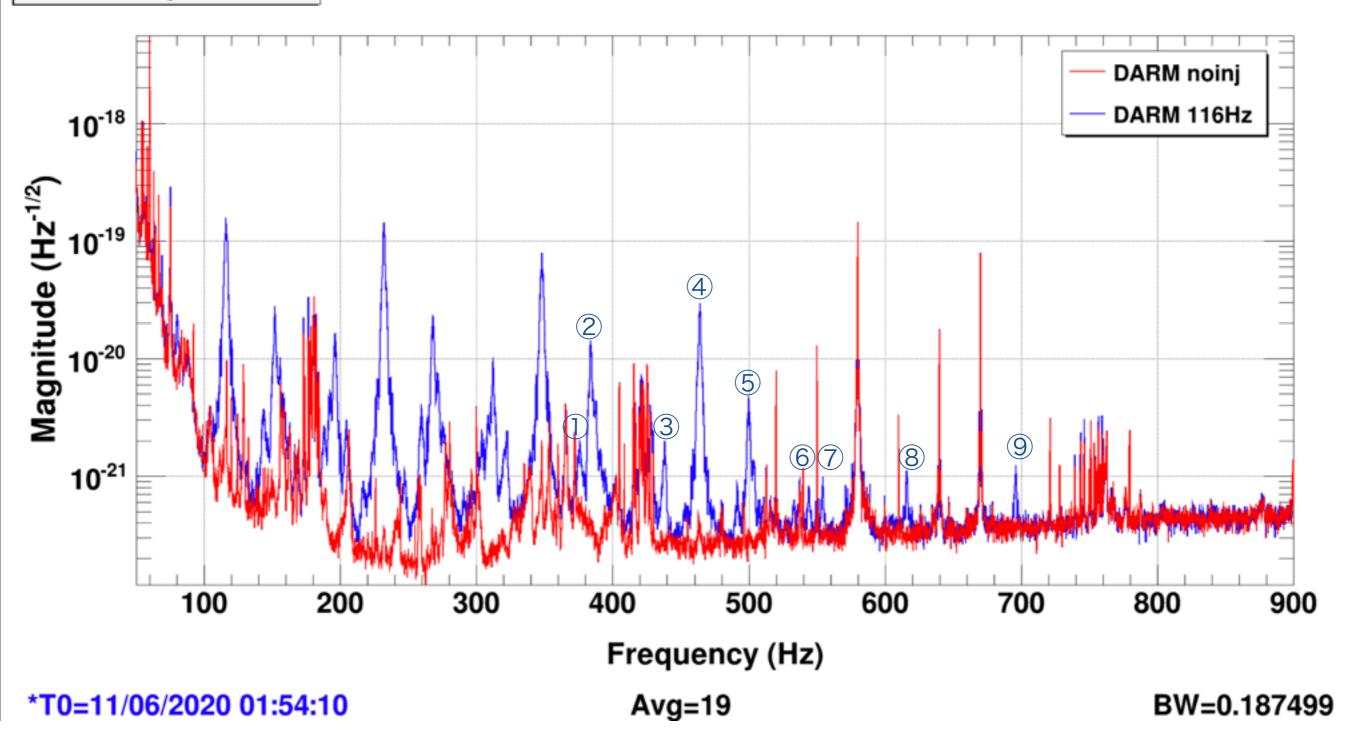


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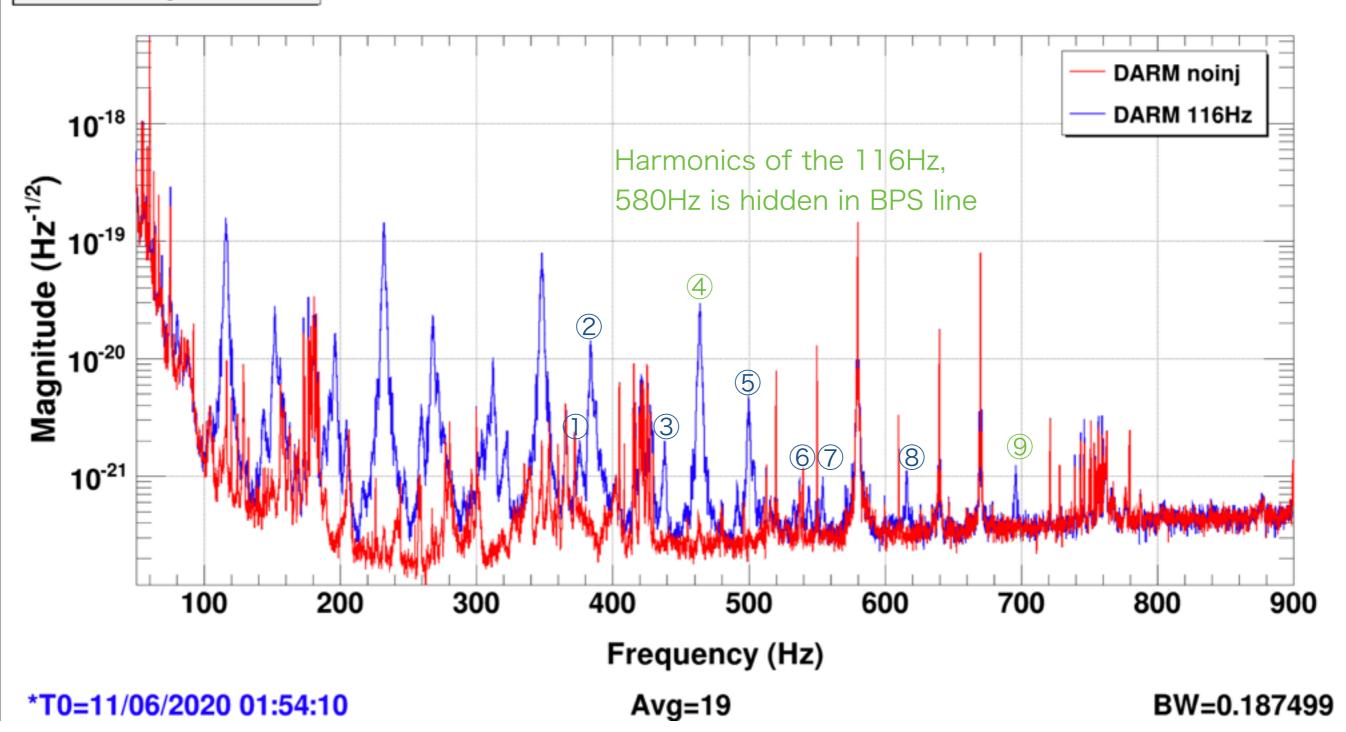
Power spectrum



①376Hz ②384Hz ③438Hz ④464Hz ⑤491.5, 500, 503Hz ⑥544Hz ⑦554Hz

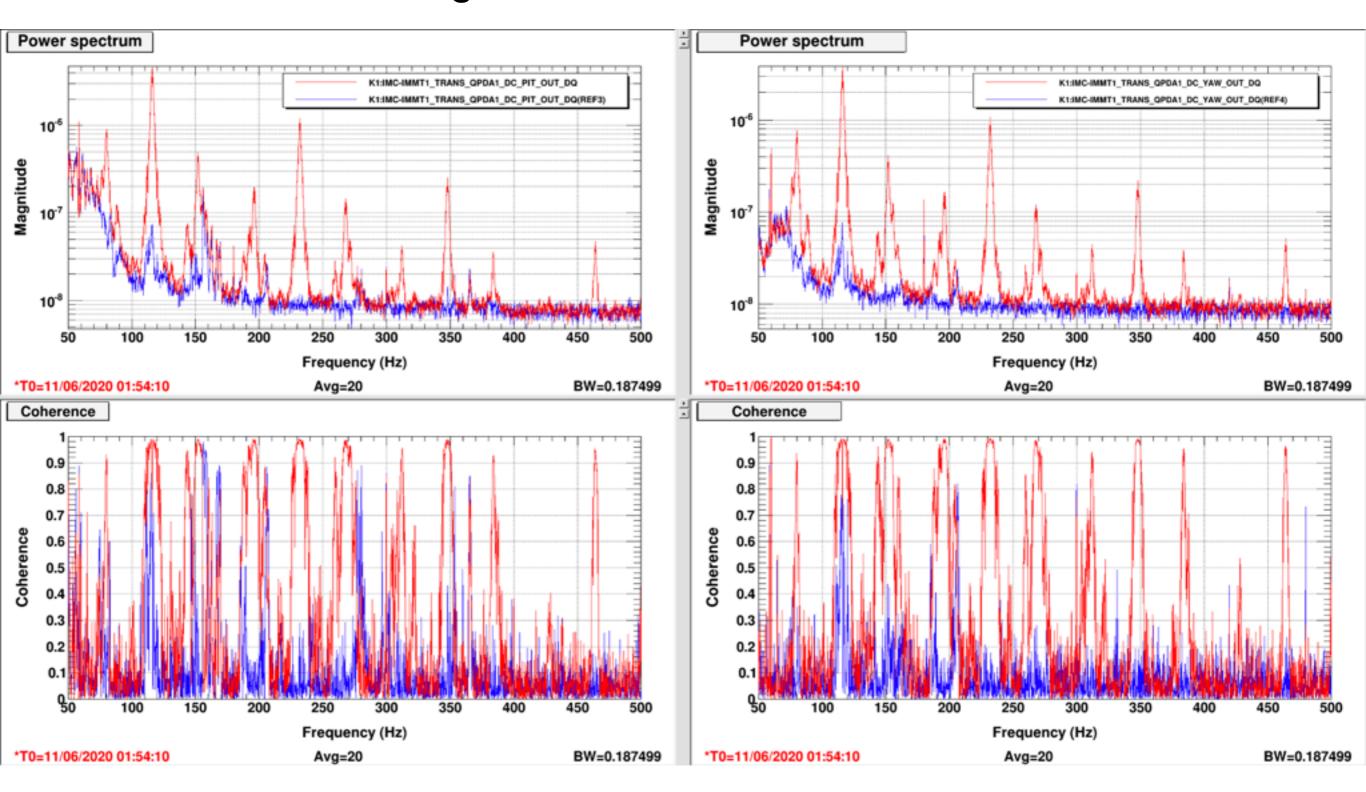
8616Hz 9696Hz

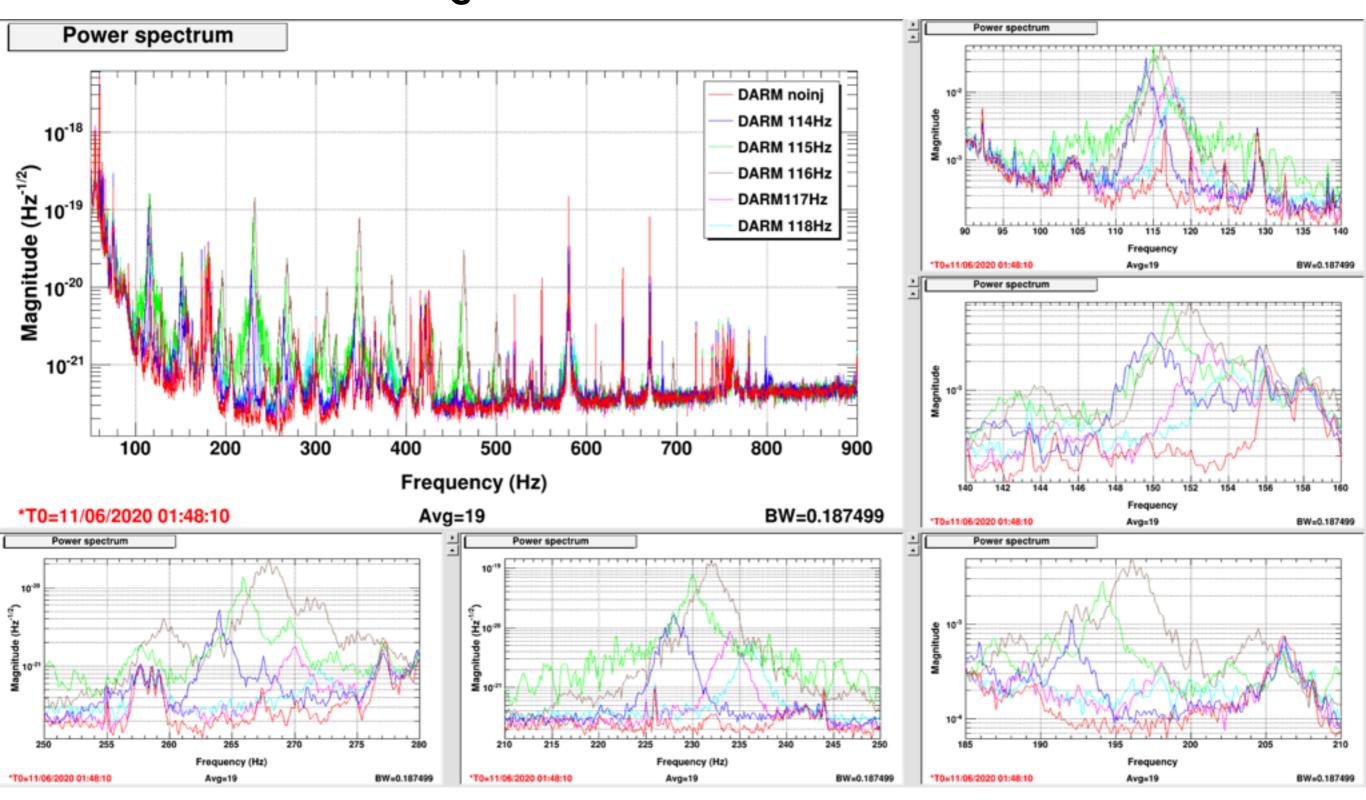
Power spectrum

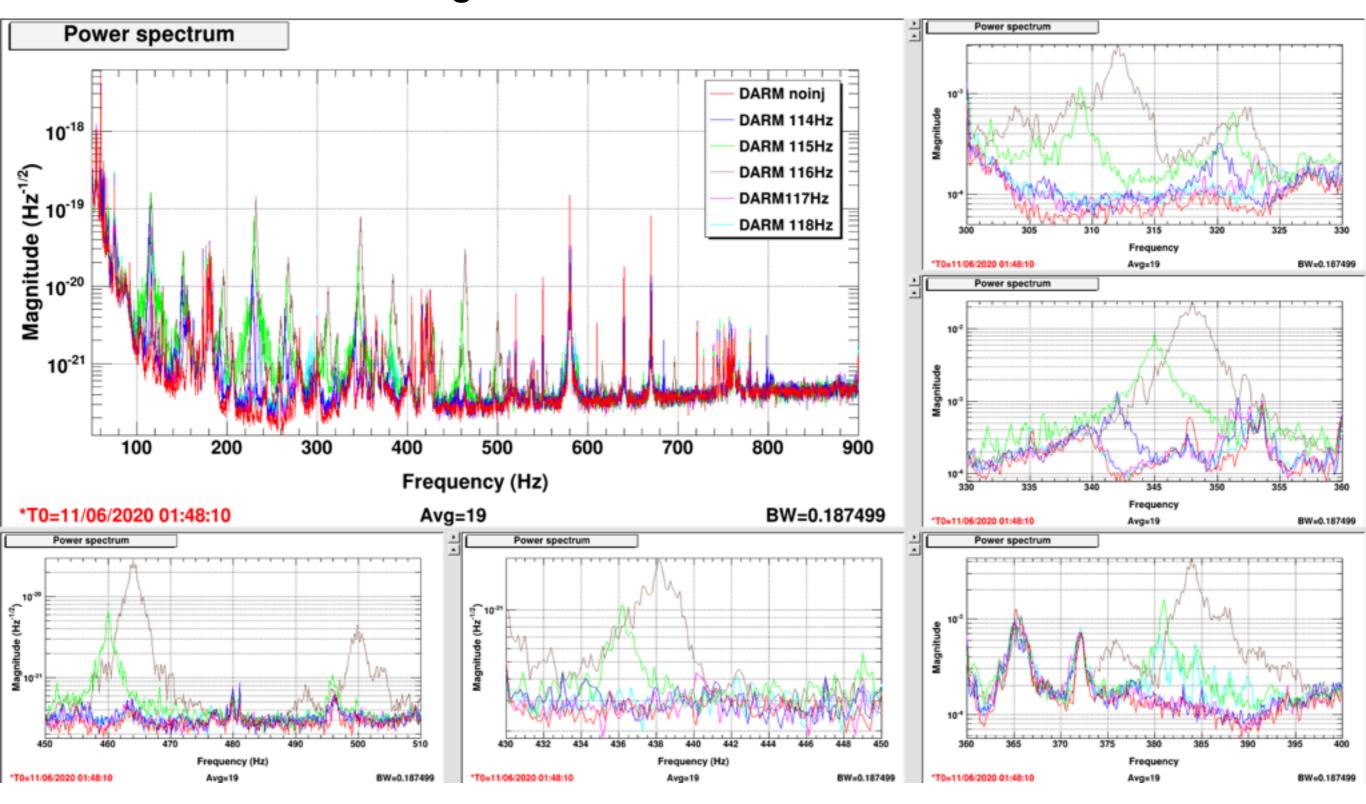


①376Hz ②384Hz ③438Hz ④464Hz ⑤491.5, 500, 503Hz ⑥544Hz ⑦554Hz

8616Hz 9696Hz







Homework this weekend

- Bruco analysis to 116Hz injection data
 - IMMT1 trans QPD P/Y have coherence
 - Check other PEM channels
 - Check suspension channels
- Frequency dependent analysis
 - Injection frequency dependence
 - Amplitude