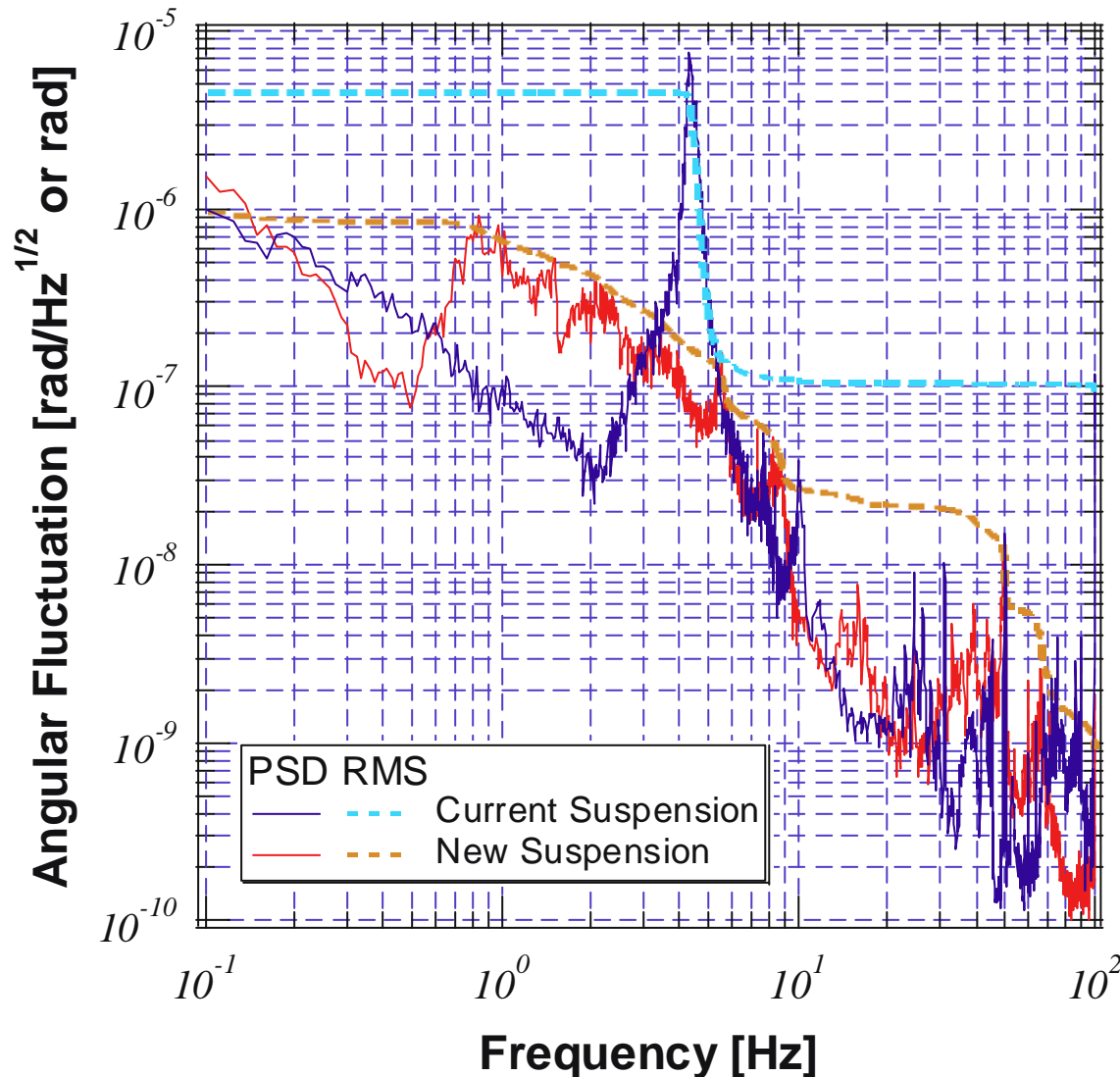


Improving the suspension system

- Reduction of resonant freq & Q of fundamental pitch mode



Test result

$$f_0(\text{Pitch}) \sim 5\text{Hz} \rightarrow 1\text{Hz}$$

$$Q(\text{RMS, Pitch}) \sim 4\mu\text{rad} \rightarrow 0.8\mu\text{rad}$$

→ Decreasing UGF of
alignment control

→ Further reduction of
alignment noise