

for Low-Frequency Gravitational-Wave Observation

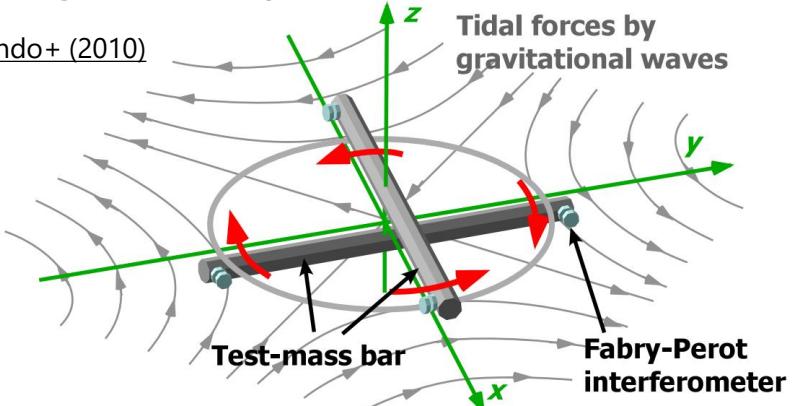
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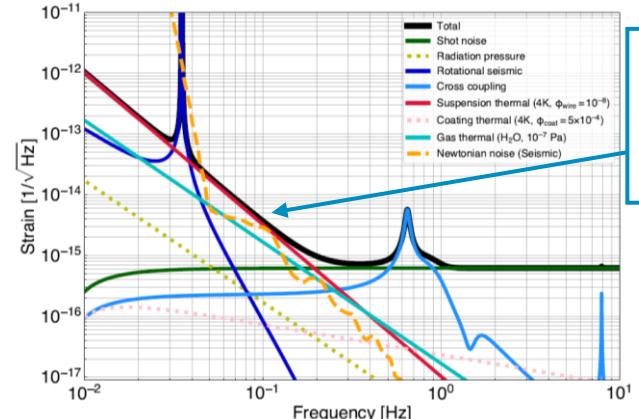
TOBA: Torsion-Bar Antenna

Ground-based GW detector for low freq.
using torsion pendulums

M. Ando+ (2010)



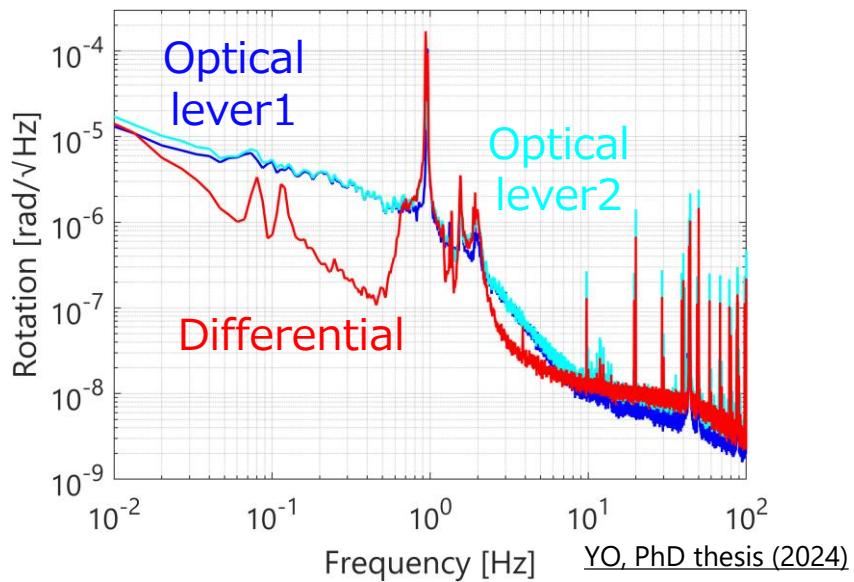
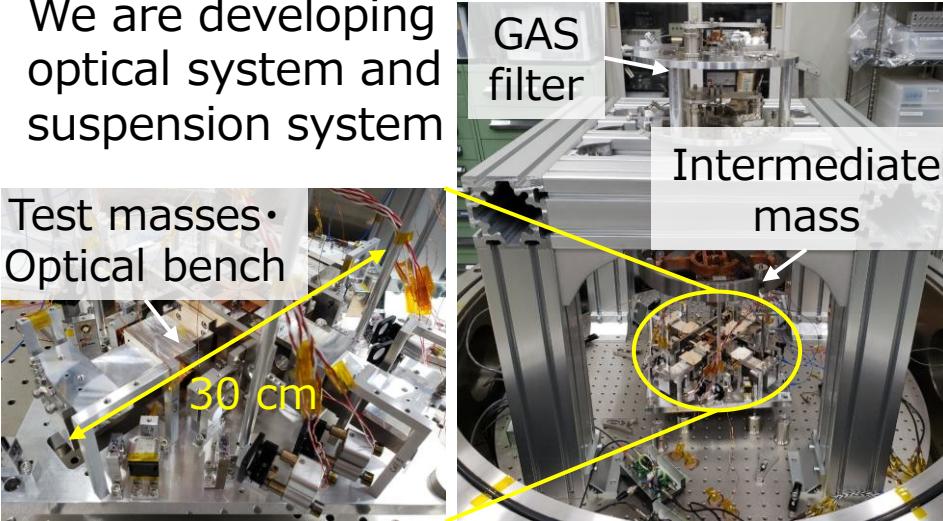
Phase-III TOBA:
prototype detector with a 30cm-long bar



Design:
 $4 \times 10^{-15} / \sqrt{Hz}$
@ 0.1 Hz

S. Takano+ (2024)

We are developing
optical system and
suspension system



YO, PhD thesis (2024)