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Torsion Suspension (suspTorpedo3.m)

- torsion suspension wire material: Tungsten
- torsion suspension wire loss angle: $1e-07$
- torsion suspension wire temperature: 293 K
- torsion wire diameter (single wire, safety factor 1x): 500 μm
- torsion suspension wire length: 0.686 m
- torsion spring constant (2 wire): $0.0065528+6.5528e-08i$ Nm/rad
- torsion bar inertia: $0.6508\text{kg}\cdot\text{m}^2$
- torsion resonance: $0.01597+7.9851e-08i$ Hz

You are not injecting squeezing..loozer!

- Seismic Isolator: MinusK
- Seismic Ground Motion: LL0
- Seismic Isolator: MinusK
- Seismic Ground Motion: LL0

Laser Power: 0.003 Watt
SRM Detuning: 0.00 degree
SRM transmission: 1.0000
ITM transmission: 0.0213
PRM transmission: 1.0000

seismicNN =

Seismic Newtonian Noise

Finesse: 294.71
Power Recycling Factor: 1.00
Arm power: 0.00 kW
Power on beam splitter: 0.00 W
Thermal load on ITM: 0.000 W
Thermal load on BS: 0.000 W
Required TCS efficiency: 1.000 (estimate, see IFOModel.m for definition)
BNS Inspiral Range: 0.000 Mpc
BBH Inspiral Range: 0.001 Mpc
Stochastic Omega: $1e+02$ Universes

New Nebulous Range: 0.665 Mpc

TORPEDO Configuration (nomm_anu_pType1_v2.m)

- Reference Cavity Length: 0.2 m
- Arm Lengths: 0.368 m
- Bar length and diameter: 0.6 m x 0.06 m.
- Bar material: Aluminium
- Bar material loss angle: $1.13e+06$
- Bar temperature: 293 K
- Bar mass: 4.5804 kg
- Bar Inertia: $0.13741\text{kg}\cdot\text{m}^2$