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Torsion Suspension (suspTorsion.m)

- torsion suspension wire material: Silicon
- torsion suspension wire loss angle: $1e-09$
- torsion suspension wire temperature: 120 K
- torsion wire diameter (single wire, multiplied safety factor 15x): 41.9824 μm
- torsion suspension wire length: 0.4 m
- torsion spring constant (2 wire): 0.0004088 Nm/rad
- torsion bar inertia: $0.00035559\text{kg}\cdot\text{m}^2$
- torsion resonance: 0.17065 Hz

You are not injecting squeezing..loozer!

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

Laser Power: 0.050 Watt
SRM Detuning: 0.00 degree
SRM transmission: 1.0000
ITM transmission: 0.0140
PRM transmission: 1.0000
Finesse: 448.16

Power Recycling Factor: 1.00
Arm power: 0.01 kW
Power on beam splitter: 0.05 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: $5e+02$ Universes

New Nebulous Range: 0.500 Mpc

TORPEDO Configuration

- Bar length and diameter: 0.18 m x 0.02 m.
- Bar material: Silicon
- Bar material loss angle: $1e+09$
- Bar temperature: 120 K
- Bar mass: 0.1317 kg