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Torsion Suspension (suspTorsion.m)

- torsion suspension wire material: Tungsten
- torsion suspension wire loss angle:  $1e-07$
- torsion suspension wire temperature: 77 K
- torsion wire diameter (single wire, multiplied safety factor 1.5x): 452.7348

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- torsion suspension wire length: 0.6 m
- torsion spring constant (2 wire): 0.027166 Nm/rad
- torsion bar inertia:  $0.6392 \text{ kg} \cdot \text{m}^2$
- torsion resonance: 0.03281 Hz

You are not injecting squeezing..loozer!

- Seismic Isolator: MultiSAS
- Seismic Ground Motion: LLO
- Seismic Isolator: MultiSAS
- Seismic Ground Motion: LLO

Laser Power: 0.100 Watt

SRM Detuning: 0.00 degree

SRM transmission: 1.0000

ITM transmission: 0.0213

PRM transmission: 1.0000

Finesse: 294.71

Power Recycling Factor: 1.00

Arm power: 0.01 kW

Power on beam splitter: 0.10 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: 0.001 Mpc

BBH Inspiral Range: 0.008 Mpc

Stochastic Omega: 6 Universes

New Nebulous Range: 3.636 Mpc

TORPEDO Configuration (nomm\_anu\_pType1.m)

- Reference Cavity Length: 6.2 m
- Arm Lengths: 0.368 m
- Bar length and diameter: 0.6 m x 0.06 m.
- Bar material: Aluminium
- Bar material loss angle:  $2.95e+07$
- Bar temperature: 77 K
- Bar mass: 13.128 kg

