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Torsion Suspension (suspTorsion.m)

- torsion suspension wire material: Tungsten
- torsion suspension wire loss angle: $1e-07$
- torsion suspension wire temperature: 293 K
- torsion wire diameter (single wire, multiplied safety factor 1.5x): 466.0401

um

- torsion suspension wire length: 1.2 m
- torsion spring constant (2 wire): 0.014393 Nm/rad
- torsion bar inertia: $0.62492 \text{ kg} \cdot \text{m}^2$
- torsion resonance: 0.024154 Hz

You are not injecting squeezing..loozer!

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

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: 0.000 Mpc

BBH Inspiral Range: 0.002 Mpc

Stochastic Omega: $4e+01$ Universes

New Nebulous Range: 1.026 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. (dumbell)
- Bar material: Aluminium
- Bar material loss angle: $1.13e+06$
- Bar temperature: 293 K
- Bar mass: 13.911 kg