

Torsion Suspension (suspTorsion.m)

- torsion wire diameter (Silicon, single wire): 2596.9935 μm
- torsion suspension wire length: 5 m
- torsion spring constant (2 wire): 0.23731 Nm/rad
- torsion bar inertia: 93642.7776 $\text{kg}\cdot\text{m}^2$
- torsion resonance: 0.00025336 Hz

You are not injecting squeezing..loozer!

Laser Power: 10.00 Watt

SRM Detuning: 0.00 degree

SRM transmission: 1.0000

ITM transmission: 0.0200

PRM transmission: 1.0000

Finesse: 313.85

Power Recycling Factor: 1.00

Arm power: 1.00 kW

Power on beam splitter: 10.00 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: 1.030 Mpc

BBH Inspiral Range: 13.523 Mpc

Stochastic Omega: 6e-08 Universes

New Nebulous Range: 849.909 Mpc

Bar length and diameter: 10 m x 0.5 m. (dumbell)

Bar mass (FusedSilica): 7559.5 kg

Bar and Suspension temperature: 4 K and 4 K.