

ans =

04-Nov-2014 16:51:58

Torsion Suspension (suspTorsion.m)

- torsion wire diameter (Silicon, single wire): 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: 0.010 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: 0.00 kW

Power on beam splitter: 0.01 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: 0.000 Mpc

Stochastic Omega: 4e+04 Universes

New Nebulous Range: 0.021 Mpc

Bar length and diameter: 0.18 m x 0.02 m.

Bar mass (Silicon, $Q \sim 1e+03M$): 0.1317 kg

Bar and Suspension temperature: 300 K and 300 K.

