

ans =

22-May-2015 23:57:47

Torsion Suspension (suspTorsion.m)

- torsion suspension wire material: Silica
- torsion suspension wire loss angle: $1e-10$
- torsion suspension wire temperature: 293 K
- torsion wire diameter (single wire, multiplied safety factor 1.5x): 400 μm
- torsion suspension wire length: 0.6 m
- torsion spring constant (2 wire): 0.058508 Nm/rad
- torsion bar inertia: $1.2545\text{kg}\cdot\text{m}^2$
- torsion resonance: 0.034371 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: 0.000 Mpc

BBH Inspiral Range: 0.004 Mpc

Stochastic Omega: 3 Universes

New Nebulous Range: 2.249 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 0.1 m. (dumbell)
- Bar material: Aluminium
- Bar material loss angle: $1.13e+06$
- Bar temperature: 293 K
- Bar mass: 28.274 kg

