

ans =

15-May-2016 17:42:54

torpedoHNDL =

Figure
> (2: TORPEDO Total Noise Budget) with properties:

Number: 2
Name: 'TORPEDO Total Noise Budget'
Color: [9.4000e-01 9.4000e-01 9.4000e-01]
Position: [440 378 560 420]
Units: 'pixels'

Show all properties

Torsion Suspension (suspTorpedo3.m)

- torsion suspension wire material: Tungsten
- torsion suspension wire loss angle: $1e-07$
- torsion suspension wire temperature: 293 K
- torsion wire diameter (single wire, safety factor 1x): 500 μm
- torsion suspension wire length: 0.686 m
- torsion spring constant (2 wire): 0.026211 Nm/rad
- torsion bar inertia: 0.6508 kg*m²
- torsion resonance: 0.03194 Hz

You are not injecting squeezing..loozer!

- Seismic Isolator: MinusK
- Seismic Ground Motion: LLO
- Seismic Isolator: MinusK
- 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: 0.001 Mpc
Stochastic Omega: $2e+03$ Universes

New Nebulous Range: 0.080 Mpc

TORPEDO Configuration (ncomm_anu_pType1_v2.m)

- Reference Cavity Length: 0.2 m
- Arm Lengths: 0.368 m
- Bar length and diameter: 0.6 m x 0.06 m.
- Bar material: Aluminium
- Bar material loss angle: $1.13e+06$
- Bar temperature: 293 K
- Bar mass: 4.5804 kg

- Bar Inertia: 0.13741 kg*m²