28-May-2016 20:02:07

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Torsion Suspension (suspTorpedo3.m)

    torsion suspension wire material: Tungsten

 - torsion suspension wire loss angle: 1ĕ-07
 - torsion suspension wire temperature: 293 K
 - torsion wire diameter (single wire, safety factor 1x): 500 um

torsion suspension wire length: 0.686 m
torsion spring constant (2 wire): 0.0065528+6.5528e-10i Nm/rad
torsion bar inertia: 0.6508kg*m^2

 - torsion resonance: 0.01597+7.9851e-10i Hz
You are not injecting squeezing..loozer!
- Seismic Isolator: MinusK
 - Seismic Ground Motion: LLO
 - Seismic Isolator: MinusK
 - Seismic Ground Motion: LLO
Laser Power:
                               0.003 Watt
SRM Detuning:
                                0.00 degree
SRM transmission:
                                1.0000
ITM transmission:
                                0.0213
PRM transmission:
                                1.0000
seismicNN =
Seismic Newtonian Noise
Finesse:
                              294.71
Power Recycling Factor:
                                1.00
                                0.00 kW
Arm power:
Power on beam splitter:
                                0.00 W
Thermal load on ITM:
Thermal load on BS:
                                0.000 W
                                0.000 W
Regired TCS efficiency:
                                1.000(estimate, see IFOModel.m for definition)
BNS Inspiral Range:
BBH Inspiral Range:
                               0.000 Mpc
                               0.002 Mpc
Stochastic Omega: 4e+01 Universes
New Nebulous Range:
                               0.832 Mpc
TORPEDO Configuration (nomm_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*m^2
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