14-May-2016 21:02:48

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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): 0.026211 Nm/rad

    torsion bar inertia: 0.6508kg*m^2

 - 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
                               0.00 degree
SRM Detuning:
SRM transmission:
                               1.0000
ITM transmission:
                               0.0213
PRM transmission:
                               1.0000
                             294.71
Finesse:
Power Recycling Factor:
                               1.00
                               0.01 kW
Arm power:
                               0.10 W
Power on beam splitter:
Thermal load on ITM:
                               0.000 W
Thermal load on BS: Reqired TCS_efficiency:
                               0.000 W
                               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
    generating anuTobaPrototype0p6m_AluBar_TungstenSus_MultiSas10pm_plot_201605
14.fig, .eps and .pdf
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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