## 04-Nov-2014 15:21:22

```
Torsion Suspension (suspTorsion.m)

    torsion wire diameter (Silicon, single wire): 110.6333 um
    torsion suspension wire length: 0.3 m
    torsion spring constant (2 wire): 0.0037851 Nm/rad

 torsion bar inertia: 0.0030487kg*m^2
 - torsion resonance: 0.17734 Hz
You are not injecting squeezing..loozer!
- Seismic Isolator: MinusK
 - Seismic Ground Motion: LLO
 Seismic Isolator: MinusKSeismic Ground Motion: LLO
Laser Power:
                                 1.000 Watt
SRM Detuning:
                                  0.00 degree
                                  1.0000
SRM transmission:
ITM transmission:
                                  0.0140
                                  1.0000
PRM transmission:
Finesse:
                               448.16
Power Recycling Factor:
                                  1.00
                                  0.14 kW
Arm power:
                                  1.00 W
Power on beam splitter:
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:
                                0.000 Mpc
BBH Inspiral Range:
                                0.003 Mpc
Stochastic Omega: 2e+02 Universes
New Nebulous Range:
                                0.663 Mpc
Bar length and diameter: 0.2 \text{ m} \times 0.05 \text{ m}.
Bar mass (Silicon, Q~1e+03M): 0.9146 kg
Bar and Suspension temperature: 120 K and 120 K.
```

