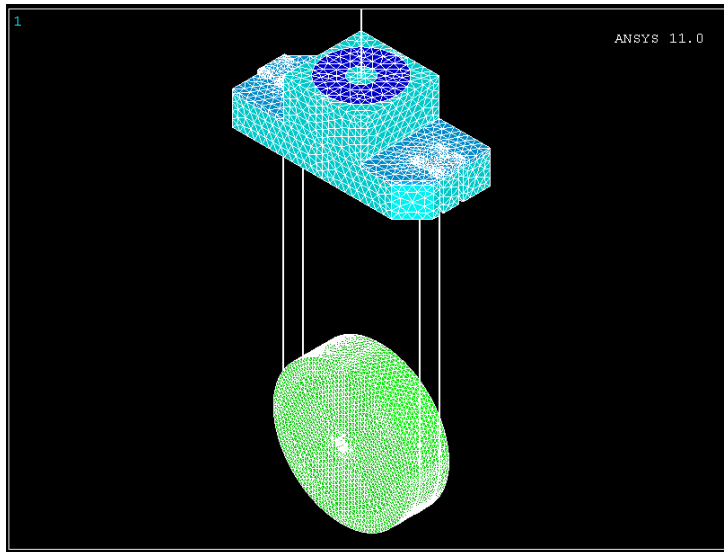
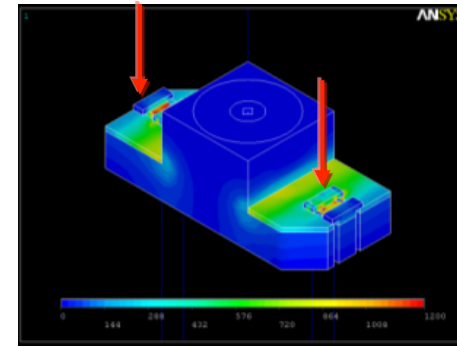
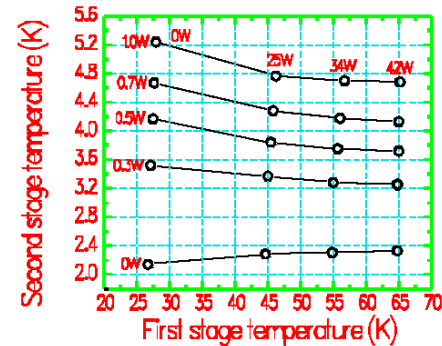


The model



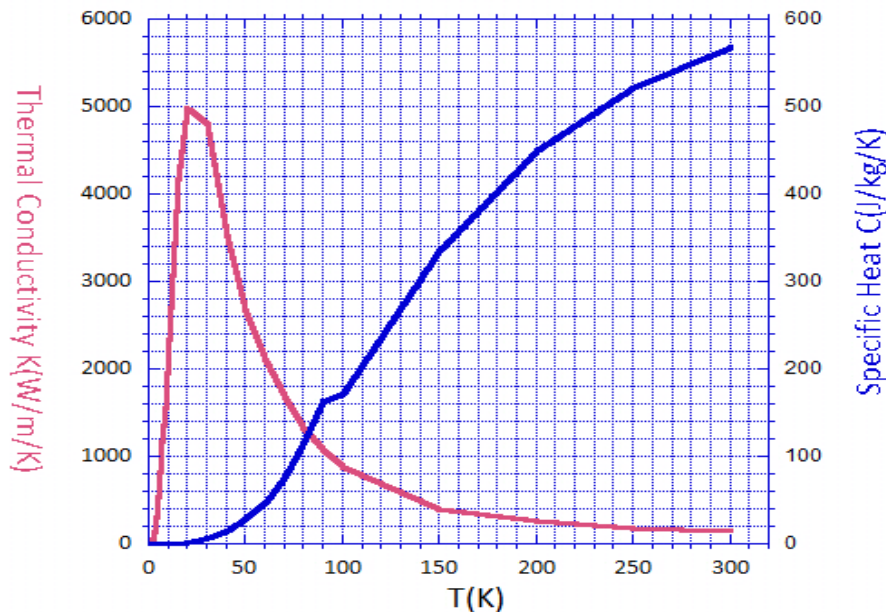
Boundary Conditions

•Cryocooler Second stage link to the marionetta

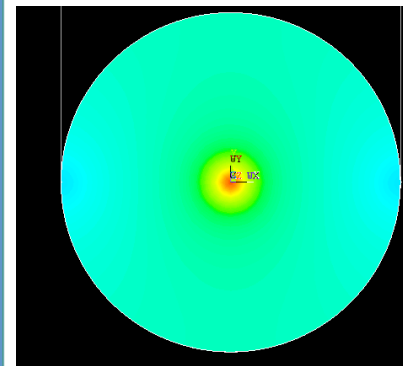


P_{cooler} depends on the temperature (Cryomec PT curve used) with 2 coolers the extracted power at 5 K is 1 W

Silicon



Laser power on the mirror



Gaussian beam

$$P_{\text{abs}} = 1 \text{ W}$$

The power absorbed by the coating is dominant

Starting point:

- thermalised system at 10 K
- laser power on
- surrounding system at 10K