

## **Thermo-structural and heat load analysis of SST-1 Superconducting coils**

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In this paper heat load and thermal deformation of support structure as well as Superconducting coils is calculated.

- Radiation heat load on TFCs= 130 W
- Radiation heat load on PFCs= 100 W
- Conduction heat load from support structure = 272 W
- Maximum thermal deformation = 13.2 mm

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