

# Effect of Radiation Shield on Thermal Measurements

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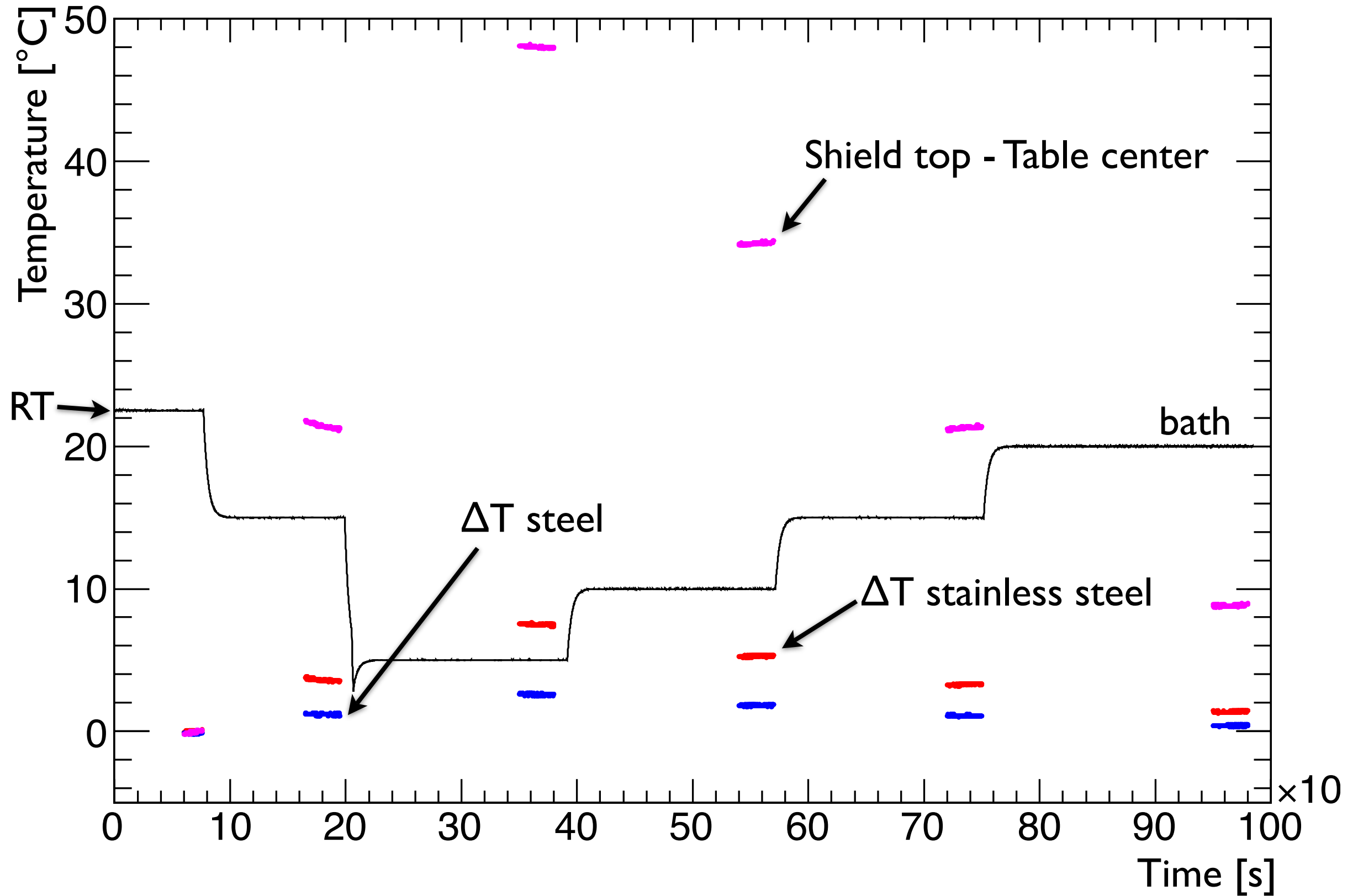


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# Radiation Shield

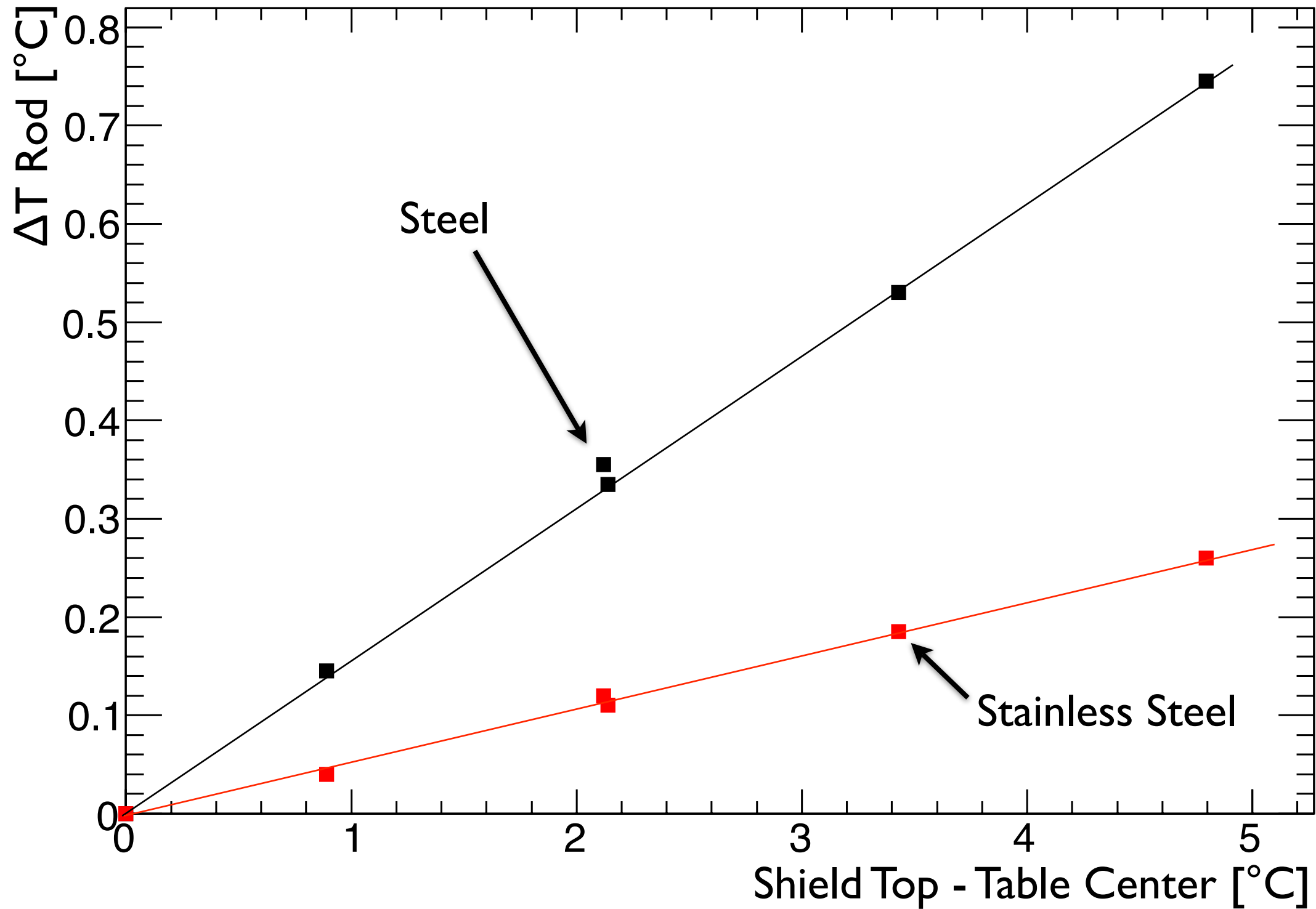
- Carsten prepared an Aluminum radiation shield
  - mounted on table with good thermal contact
  - same surface as table
  - high enough to have space for test structures (rods, etc...)
- First measurements with shield done last week
  - Two rods placed on table (steel and stainless steel)
  - Temperature sensors
    - at top and bottom of both rods
    - on table (3)
    - on radiation shield (one close to table, one on top)

# Temperatures vs. Time



Differences in temperature are multiplied by 10

# $\Delta T$ Rods vs. Shield Top - Table Center



Difference in slope equals roughly difference in thermal conductivity