Stave Irradiation

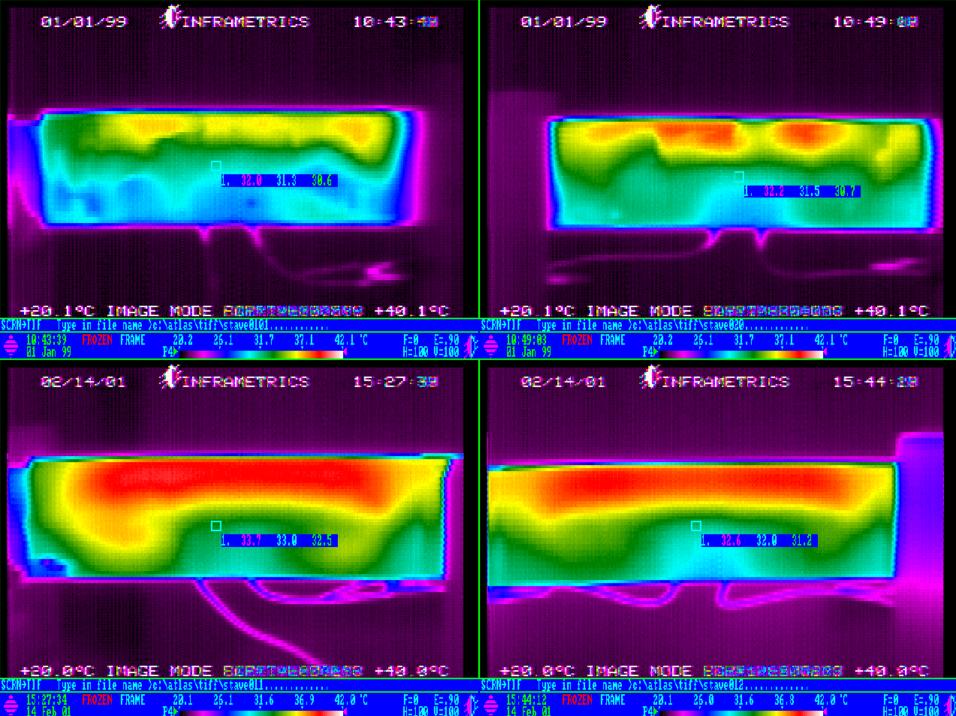
- See setup on next page
- Before irradiation
 - IR imaging done with water coolant at ??⁰C, flow rate of 1 liter/min, 7.1
 W/module
 - Images of each module at http://www-physics.lbl.gov/~gilg/IR%20Images/
 - File name indicates module number Stave0#0.tif

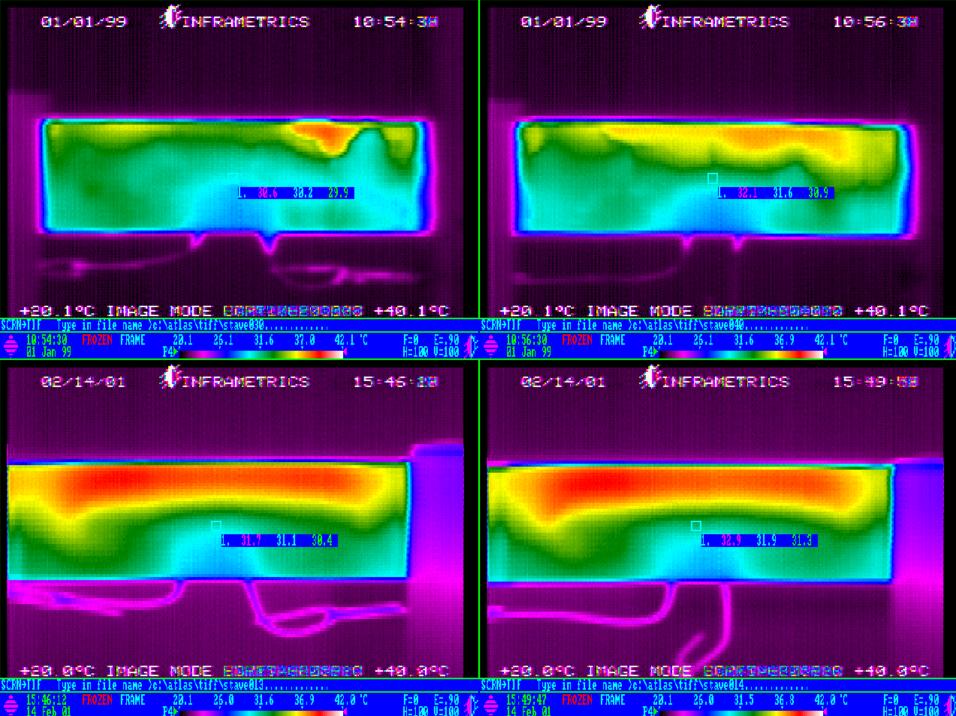
• First irradiation

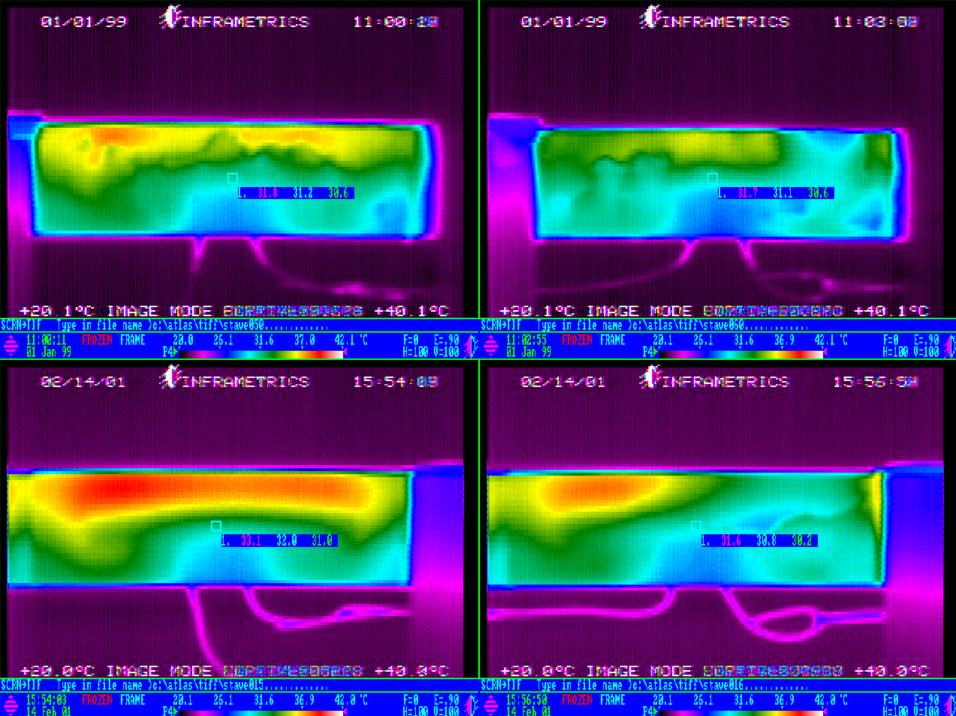
- Stave in vessel with nitrogen atmosphere.
- Module #1(M1) end closest to source
- Stave in vertical position in ring source
- Maximum dose is 50 Mrad but varies along stave how much is TBD.
- IR imaging done with water coolant at 20.8°C, 1 liter/min, 7.1 W/module
- Images of each module at http://www-physics.lbl.gov/~gilg/IR%20Images/
- File name indicates module number Stave01#.tif
- Before and after images follow
- Concern about paint quality in "before" images => about 1°C uncertainty in difference. Before may be warmer by this amount.

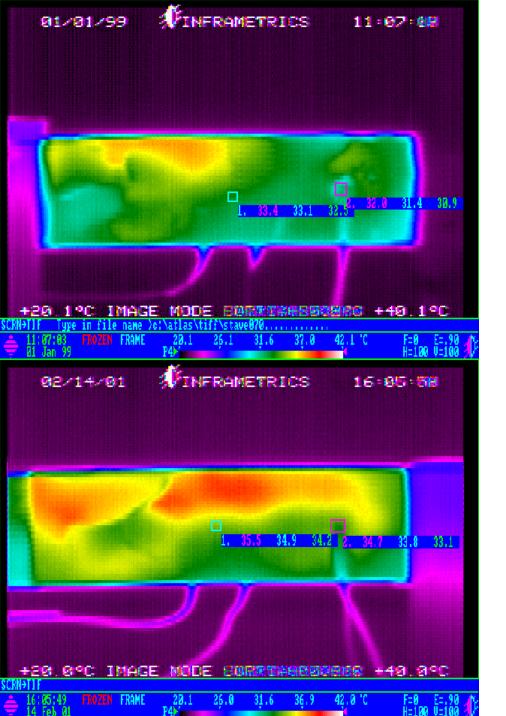
Picture of Setup Goes Here











- Conclusions after first irradiation
- Max temperature rise is <4°C comparing hottest points
- Size of warmer regions increases after irradiation
- There is already large spread in temperature on module before irradiation..