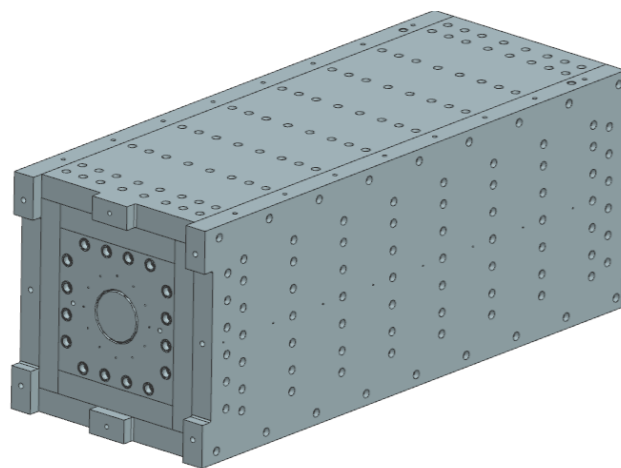


TSD report: project updates

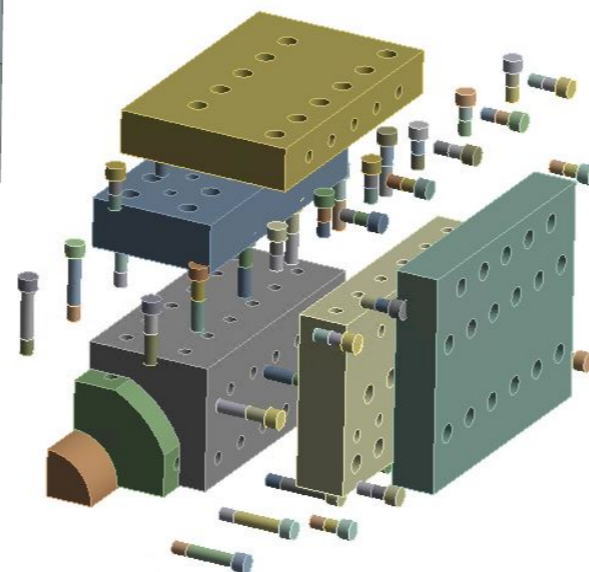
PIP II: Bolting Design for 25 kW Absorber (Nandhini Dhanaraj)

- Working list of the bolting design for absorbers:
 - Connecting aluminum and steel plates around the Graphite cylinder core
 - Estimating the necessary preload, bolting torque to optimize the performance for good heat transfer and thermal conductance
 - Studying non-uniform expansions due to the thermal expansion coefficients among different materials
 - Also, decided NOT to use Belleville washer to change the bolt preloads due to the non-uniform distribution. We will only use lock washers.
 - The same design will be used for the 2 kW portable absorber.

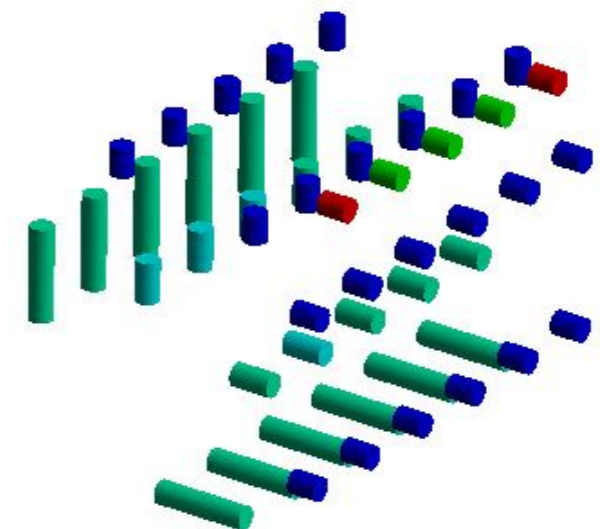
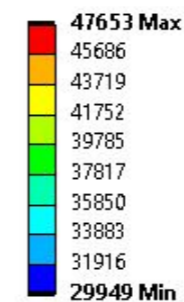
Absorber Showing Bolt Holes



Exploded View of Quarter Symmetric Model



Resulting Working Loads in Newtons



TSD report: project updates

PIP II: Booster Collimator System (Vladimir Sidorov)

- ◆ Completed the booster primary collimator survey
- ◆ Welded the booster secondary collimator vacuum chamber
- ◆ Assembled collimator motor-controls

Collimator motors



Booster secondary collimator vacuum chamber

