DSG Ansys R&D Meeting Minutes

Date: December 14, 2023
Time: 2:00 PM – 2:30 PM

Attendees: Peter Bonneau, Aaron Brown, Pablo Campero, George Jacobs, Tyler Lemon, and Marc McMullen

1. **NPS thermal analysis with Ansys Mechanical and Fluent in transient mode**
   Pablo Campero
   1. Generated backup copy for the common model to be used in both thermal analyses
      - File (FFF.scdoc) location: O:\DSG\Hall C\NPS\CrystalArray\Common Geometry
   2. Started mesh of the model using Ansys Fluent with Meshing
      - Imported model from SpaceClaim to Fluent with Meshing software
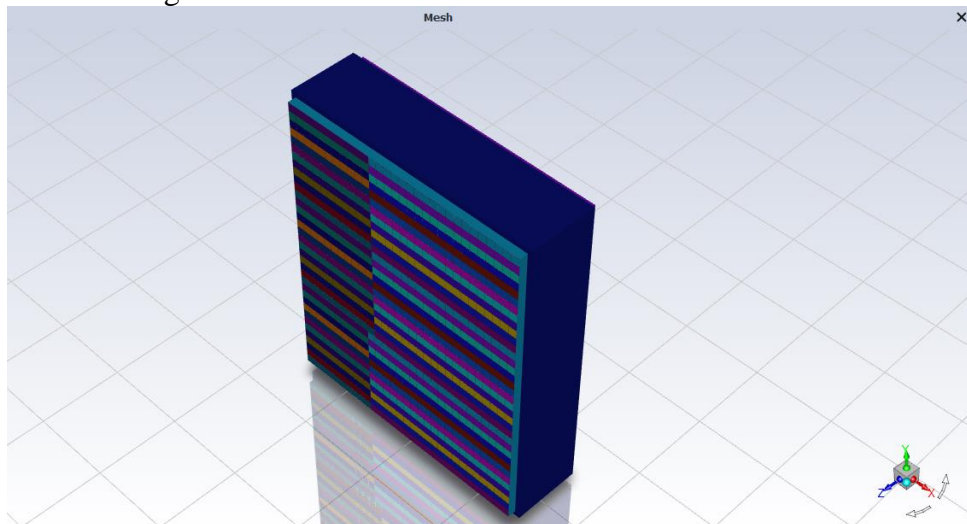   - Adding local mesh cell size features for the dividers

Fig.1. NPC crystal array common model imported in Ansys Fluent with Meshing

2. **EIC beampipe Ansys Fluent thermal analysis**
   Pablo Campero
   1. Stopped analysis since there is only one available Ansys Fluent license, which had to be used to start the NPS model mesh