

Welcome to NICA days 2019 and IVth MPD Collaboration Meeting in Warsaw



Contribution ID: 113

Type: **not specified**

Heat transfer simulation of the MPD-TPC detector

Friday, October 25, 2019 2:35 PM (10 minutes)

The main task was to make temperature simulations for MPD-TPC detector. Model of ROC from MPD-TPC detector was made in line with actual dimensions of real model in Autodesk Inventor program. Whole model was drawn with all PCBs and cooling system. Then thanks to Autodesk CFD program were carried out calculations of model in temperature domain in case of temperature change gradient examination.

Primary author: CZERKAWSKI, Maciej

Co-authors: ROSLON, Krystian (Warsaw University of Technology (PL)); BIELEWICZ, Marcin (Nacional Centre for Nuclear Research); MILEWICZ-ZALEWSKA, Michalina (Joint Institute for Nuclear Reactions); DABROWSKI, Daniel (Warsaw University of Technology (PL)); PERYT, Marek (Warsaw University of Technology); DUNIN, Nikita (JINR)

Presenter: CZERKAWSKI, Maciej

Session Classification: TeFeNICA Session

Track Classification: TeFeNICA Student's Session