Contribution ID: **140** Type: **not specified**

R3B at project ESCAPE; a case study to practice open science for FAIR/GSI experiments

The open science movement aims at more open and collaborative research practices in which data, software, and other types of academic output are shared and made available for reuse leading to greater scientific and societal impact. Within the nuclear and particle physics communities, the complexity of the analysis codes and the volume of the collected data are the most common obstacles to making their scientific outcomes accessible and reusable. In the project ESCAPE, we tried to find solutions for challenges concerning implementation of the FAIR (Findable, Accessible, Interoperable, Reuseable) principles by taking the R3BRoot analysis software and the associated data obtained by the NeuLAND detector of the R3B experiment as a case study. In this presentation, we demonstrate how we can technically apply FAIR principles in the analysis workflows and data management of the FAIR/GSI experiments and provide them as a web service to the end-users.

Presenter: M. DADKAN, Maisam