Contribution ID: **102** Type: **Short Talk (5')**

Abstraction of user storage mechanisms for heterogeneous REANA scientific pipelines.

Wednesday 1 December 2021 10:25 (5 minutes)

In recent years there has been a reproducibility crisis in most science fields, where researchers fail to reproduce other researchers and their own experiments. In HEP, the computational analysis of the data obtained from experiments, such as the LHC, is the new concept of a experiment. The computational experiments are bounded to the environment and equipment used to perform the analysis. REANA is an open-source reusable research data analysis platform, that allows researchers to run their analyses in remote compute clouds by structuring the input data, the analysis'code, the containerized environment and using declarative workflow systems. This project aims to make a full abstraction of the storage where the workflows inside the REANA platform run, known as the workspace. The centralization and abstraction of the workspace from REANA code base, allows the support for POSIX compliant file systems to be used as storage backend inside REANA-clusters.

Author: DIAZ SANCHEZ, Maria Camila (Universidad Nacional de Colombia)

Co-authors: MECIONIS, Audrius (CERN); SIMKO, Tibor (CERN)

Presenter: DIAZ SANCHEZ, Maria Camila (Universidad Nacional de Colombia)

Session Classification: LHC

Track Classification: LHC