**Running data-intensive non-HEP scientific applications with PanDA WMS at OLCF**V.G. Anantharaj, F. Barreiro Megino, K. De, S. Jha, J.C. Kincl, A. Klimentov, T. Maeno,   
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**Abstract**

Modern experiments collect peta-scale volumes of data and utilize vast, geographically distributed computing infrastructure that serves thousands of scientists around the world.

Requirements for rapid, near real-time data processing, fast analysis cycles and need to run massive detector simulations to support data analysis pose special premium on efficient use of available computational resources.

A sophisticated Workload Management System (WMS) is needed to coordinate the distribution and processing of data and jobs in such environment. In this poster, we will discuss the PanDA WMS developed by the ATLAS experiment at the LHC and its applications to science projects other than ATLAS.

An instance of PanDA WMS Server was installed at OLCF in an OpenShift container. This instance will serve non-ATLAS applications by users from inside OLCF an also from outside. Currently, there are applications from the US QCD collaboration, the nEDM experiment, the IceCube experiment, molecular dynamics simulations, and genome-wide association studies running through this PanDA Server instance. Using this instance, it can be possible to run payloads not only on OLCF facilities but also distributed on other clusters outside OLCF.

In this poster we’ll give an overview of PanDA at OLCF, its current applications and future plans.