

Progetto di Ricerca

TITLE:

“Advanced techniques for anomaly detection in HEP”

DESCRIPTION:

In the context of High Energy Physics research, the exploration and adoption of machine learning techniques has become ubiquitous. In particular, the area of “anomaly detection” (AD) is gaining traction in a variety of areas - e.g. improvements of physics analyses performances, search for new physics, design of novel trigger algorithms, monitoring of computing operations, and more. The project requires a qualified expert in this sector to work on the identification of proper AD techniques a predefined set of problems of interest of the CMS-Bologna group and the INFN-CNAF Tier-1 centre, and the training of young personnel to locally maintain the solutions that will be eventually designed and deployed in production.