Contribution ID: **49**   Type: **not specified**

Hydra: Computer Vision for Data Quality Monitoring

Tuesday, 28 November 2023 15:29 (23 minutes)

Hydra is a system which utilizes computer vision to perform near real time data quality management, initially developed for Hall-D in 2019. Since then, it has been deployed across all experimental halls at Jefferson Lab, with the CLAS12 collaboration in Hall-B being the first outside of GlueX to fully utilize Hydra. The system comprises back end processes that manage the models, their inferences, and the data flow. The front-end components, accessible via web pages, allow detector experts and shift crews to view and interact with the system. This talk will give an overview of the Hydra system as well as highlight significant developments in Hydra's feature set, acute challenges with operating Hydra in all halls, and lessons learned along the way.

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Session Classification: Calibration, Monitoring, and Experimental Control in Streaming Environments