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Type: **Sectional**

Trigger system and detection of Supernova in the NOvA experiment

Tuesday 26 September 2017 16:45 (15 minutes)

NOvA experiment utilizes a data acquisition system based on a continuous deadtime-less readout of the front-end electronics. Performing physical analyses requires a triggering system, which can select the relevant events in this data flow.

The NOvA Data Driven Trigger system analyzes all the data collected by the NOvA detectors in real time using hundreds of parallel instances of highly optimized analysis software running within ARTDAQ framework.

This talk is focused on the description on NOvA triggering system and gives a description of a trigger for detection of the neutrino signal from supernova explosion in our Galaxy.

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Session Classification: Triggering, Data Acquisition, Control Systems