

STAR HLT upgrade and Physics opportunity

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The continued increase in RHIC luminosity imposes a challenge for STAR data acquisition, offline computing and data analysis. A High Level Trigger (HLT) provides us with the capability to reduce the amount of data written to tape by selecting desired events while still maintaining a high sampling rate to fully utilize the delivered luminosity for wide range of triggers. In this talk we will present STAR's HLT layout and outline our future upgrade plan. We will highlight our recent physics achievement from the STAR HLT operation and discuss new physics opportunities in the future high luminosity era.

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