

# LHAASO and the Observation of the Brightest GRB 221009A

*Saturday, 3 June 2023 10:55 (25 minutes)*

I'll briefly introduce the LHAASO as an gamma ray astronomical experiment and its historic detection of the brightest GRB 221009A since GRB was discovered 60 years ago. Enormous number of photons are collected during the burst of 2000 seconds by LHAASO water Cherenkov detector array. This allows us to measure the complete afterglow in high energy band, including its silent period, onset, growth and decay phases. Before it is fading away, LHAASO has recorded a sudden reduction in fluence that indicates a "jet break". All the detailed measurements reveal many interesting features that have not been detected before in the GRB investigation history.

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**Session Classification:** Astro