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Gamma Ray Burst polarimetry with a CubeSat mission

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Despite their discovery 50 years ago, emission mechanisms and models of gamma ray bursts (GRBs) are not well constrained by spectrometry alone. Precise polarimetric measurement could bring new insights on the way these transient events are produced. COMCUBE is a project of CubeSat constellation using Compton telescopes to detect polarity of GRB prompt emission from about 100keV up to 1MeV. I work on the estimation of the performance of the detector to determine how many instruments will be needed, what should be the constellation configuration to achieve certain detection performance and what constraints it could bring on GRB prompt emission models.

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Session Classification: Student talks