

P07 Variability study GRS 1915+105 with the 9-year monitoring of MAXI/GSC and Swift/BAT

Monday, 19 November 2018 17:21 (1 minute)

“GRS 1915+105 is one of the brightest X-ray objects over 26 years since it was first detected by GRANAT/WATCH in 1992. Its variable behavior was classified to 12 different variability classes based on the analysis of the light curve and color-color diagram (Belloni et al. 2000). The variability is observed on different timescales from a few seconds to an hour. Later work suggests there are two more classes (Klein-Wolt et al. 2002; Hannikaniemi et al. 2005). However, transitions among variability classes of GRS 1915+105 have not been well studied yet.

In this work, we classified 9 years' activity of GRS 1915+105 into three branches in the hardness-intensity diagram drawn with the MAXI/GSC and Swift/BAT data. In the X-ray light curve, we identified the time periods that constitute each of these branches. We discuss the X-ray emission components present in these branches and transitions between them.”

Presenter: Mr SHIRAISHI, Kazuki (Tokyo Institute of Technology)

Session Classification: Poster Short Presentations