Executive summary contribution #277

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Title: Systematic X-ray study of GeV emitting radio galaxy

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・What is this contribution about?

We report about the contribution from jet and accretion disk to the X-ray spectra for gamma-ray emitting radio galaxies (RG).

・Why is relevant/interesting?

Previous work used under 10 gamma-ray RG. From 4FGL-DR2 catalog, we choose 21 RGs which has been observed 4 times in Swift/XRT. It is enough number to perform statistical analysis.

・What have we done?

We studied the relation between X-ray parameter which is result of Swift/XRT data and gamma-ray parameter which is from 4FGL-DR2 catalog, and we'll show the result of time variation and the relation between X-ray and Gamma-ray Photon Index.

・What is the result?

It is turn out that the RGs can be divide into 3 types, using the result of time variation, the relation between photon index of X-ray and Gamma-ray, and accretion rate. First is the objects class "Jet dominant type" which show strong harder-when-brighter trend, hard gamma-ray spectra, soft X-ray spectra, and low accretion rate. Second is the objects class "Accretion Disk dominant type" which show weak harder-when-brighter trend, soft gamma-ray spectra, hard X-ray spectra, and high accretion rate. Third, the objects class "Jet and AD dominant type" which show strong harder-when-brighter trend, soft gamma-ray spectra, hard X-ray spectra, and middle accretion rate.