Contribution ID: **3** Type: **not specified**

X-ray analysis of the structure of relativistic AGN jets of Cygnus A (12+3)

Monday 26 April 2021 19:25 (15 minutes)

Cygnus A is a giant elliptical galaxy, one of the most powerful radio galaxy. Like other radio galaxies, its activity is determined by active galactic nucleus (AGN) - supermassive black hole, surrounded by accretion disk, and with two relativistic jets, diverging in opposite directions from the supermassive black hole. We investigate the two hotspots - A and B - at the end of the eastern relativistic jet of Cygnus A. We analyze the X-ray emission of these hotspots using observational data from Chandra Data Archive and estimate the mechanism(s) of generation of X-ray emission.

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Session Classification: High energy astrophysics