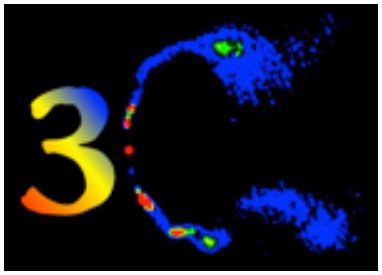

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NuSTAR observations of 3C84 in the Perseus Cluster

Tuesday, 17 September 2019 09:50 (20 minutes)

This presentation will cover the broad-band observations of one of the 3C sources, namely the radio galaxy 3C84 (a.k.a. NGC1275), which is the central dominant galaxy in the Perseus Cluster. The AGN contains a radio-emitting jet, and is believed to play an important role in providing the feedback to the cluster by energizing large-scale "bubbles" of radio-emitting plasma. In particular, we will discuss the observations of 3C84 with NuSTAR, which reveal strong nonthermal emission associated with the AGN rather than the cluster. We discuss the possible origin of that emission, and implications on the energetics and content of the jet in 3C84.

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Session Classification: Radio-loud active galaxies and their environments: feedback mechanisms - intracluster medium - mergers, shocks and cavities - role of BCGs - non-thermal processes