

NGC 1275: Central Giant of Perseus Galaxy Cluster & Laboratory for Feedback Processes

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Room 184 Nieuwland Science Hall

The giant elliptical galaxy NGC 1275 is the brightest member of the massive Perseus galaxy cluster. It hosts a powerful Seyfert 1 active nucleus feeding an energetic double lobed radio source that is strongly interacting with the surrounding hot intracluster medium. This galaxy also contains an extraordinary cooler interstellar medium, including massive molecular and warm ionized gas components located in a 3-dimensional array of sheets and filaments extending over spatial scales of 10s of kiloparsecs. This talk will review the properties of NGC 1275 and discuss connections between the state of its interstellar medium, the influence of the AGN, and this galaxy's unusual star forming properties.