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Gas Accretion and Triggering in NGC 3998

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NGC 3998 is a nearby early-type galaxy which, in the optical, appears to be an average red-and-dead galaxy at the centre of a small group of galaxies at the edge of the Ursa Major cluster.

However, when observed in the L-band with the WSRT telescope, a study of the NGC 3998 group reveals an intriguing picture of minor mergers between the galaxy members, remnants of tidal interactions and evidence for a poorly collimated radio jet emanating from the low-luminosity AGN at the centre of NGC 3998.

In this work we explore the connection between the assembly history of NGC 3998, and the triggering of the AGN. We use multi-wavelength tracers to link an accretion event with the precession of the AGN major axis, which we tie to the AGN jet morphology.

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No

Level for award (Hons, MSc, PhD, N/A)?

N/A

Main supervisor (name and email) and his / her institution

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