



Multi-Phase Fueling and Feedback Processes in Jetted AGN

Guest Editors:

Dr. Isabella Prandoni

INAF—Institute of
Radioastronomy, 40129 Bologna,
Italy

Dr. Ilaria Ruffa

Cardiff Hub for Astrophysics
Research and Technology
(CHART), School of Physics &
Astronomy, Cardiff University,
Cardiff CF24 3AA, UK

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Message from the Guest Editors

Dear Colleagues,

Relativistic radio-emitting jets associated with active galactic nuclei (AGNs) likely play a crucial role in the evolution of galaxies. By transferring a fraction of their kinetic energy to the surrounding medium (the so-called “kinetic-mode” AGN feedback), radio jets can both quench (negative feedback) and promote (positive feedback) star formation, thus regulating the growth of both central supermassive black holes (SMBHs) and their host galaxies. Recent observations also suggest that jetted AGNs may be self-regulated by a feeding and feedback loop, in which the matter that fuels the SMBH and triggers the jet activity gets regularly heated by these latter and stops being accreted, setting up a cycle that is fast compared to the evolutionary timescales of the host galaxies. All this provides clear evidence of a deep connection between the large-scale environment, fueling/feedback processes of jetted AGNs, and their host galaxy evolution, although the complexity of these phenomena still leave many open questions.





Editors-in-Chief

Dr. Margo Aller

Department of Astronomy,
University of Michigan, Ann
Arbor, MI 48109-1042, USA

Dr. Jose L. Gómez

Instituto de Astrofísica de
Andalucía (IAA-CSIC), Glorieta de
la Astronomía S/N, 18008
Granada, Spain

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Galaxies Editorial Office
MDPI, Grosspeteranlage 5
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