

AGN negative and positive feedback: theory and observational evidence (INVITED)

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Numerous models and simulations expect that AGN should have a negative feedback effect on star formation in their host galaxy, by generating outflows and by injecting energy into the ISM and in their circugalactic medium. Recent models predict that AGNs may also have a positive feedback effect by enhancing star formation in some regions of their host galaxies.

I will quickly review these models and then mostly focus on the observational evidence (or lack thereof) of such feedback effects, thorough different observational diagnostics, in different classes of AGNs, both locally and in the early universe.

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