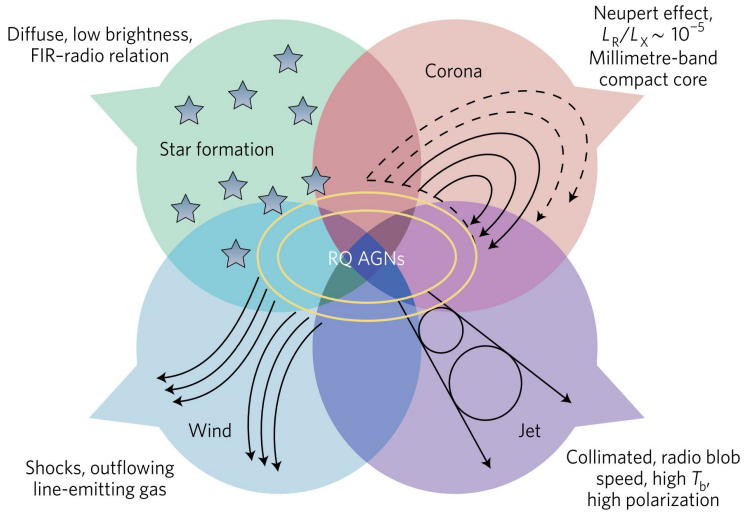
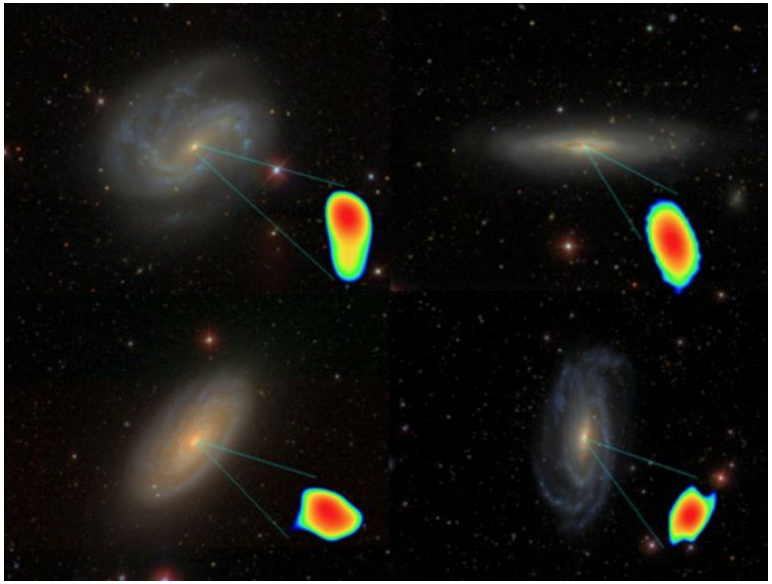
Origin of the radio emission in radio-quiet AGN



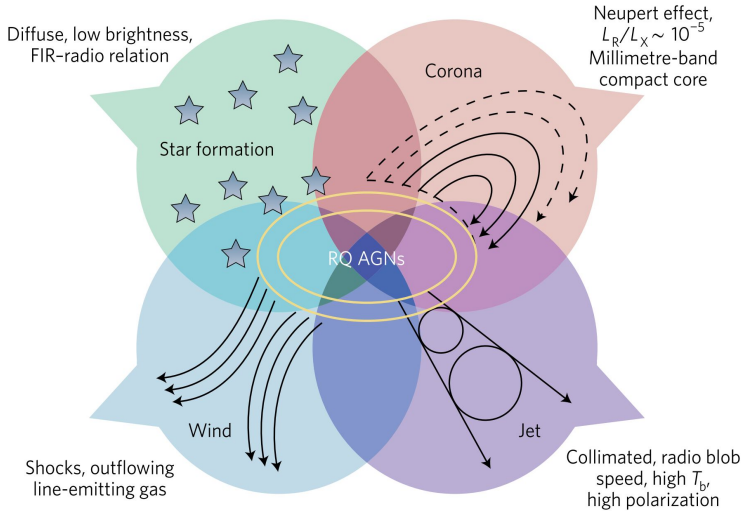


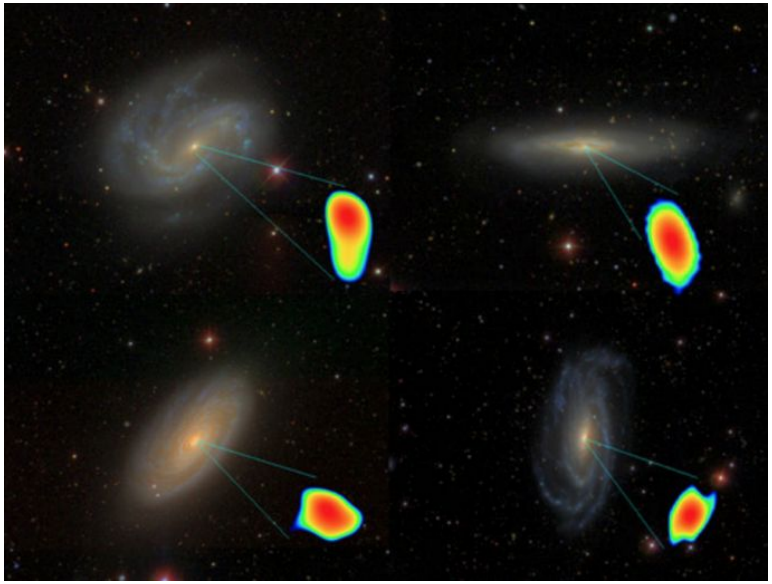
Scientific objective: Study of the radio emission in a sample of hard X-rays selected AGN, in the broader project on accretion/ejection connection in supermassive black holes. Identification of the emission process (star formation, corona, jet, or wind), comparison with theoretical models.

Method: Reduction and analysis of a high resolution radio dataset (VLBI), collected with European VLBI network (EVN). Diagnostic of the emission (detection rate, spectral slopes, magnetic field), morphology, and radio/X-rays correlation.

HXAGN project: https://sites.google.com/inaf.it/hxagn/home

L'origine dell'emissione radio negli AGN radio-quieti





<u>Obiettivo scientifico:</u> studio dell'emissione radio in un campione di AGN selezionati in banda hard X-ray, nell'ambito di un ampio progetto sulla connessione tra accretion ed ejection nei buchi neri supermassicci. Identificazione del processo di emissione (formazione stellare, corona, jet, o vento), e confronto con i modelli teorici.

<u>Metodo:</u> riduzione e analisi di dati radio ad alta risoluzione (VLBI) raccolti con la rete europea (EVN). Diagnostica dell'emissione (detection rate, spectral slopes, campo magnetico), della morfologia, e correlazione con flusso in banda X.

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