

**Proposal Abstract:**

We propose to observe H I lines from 5 AGN-host dwarf galaxies ( $M < 10^{9.5} M_{\odot}$ ) exhibiting enhanced radio emissions. In massive galaxies, AGN feedback is believed to be the key factor regulating the co-evolution between Supermassive Black Holes (SMBHs) and host galaxies. However, due to limited observational evidence, its role in the low mass regime, in comparison to stellar activity and environmental effects, remain controversial. In this proposal, we aim to identify signature of potential AGN-driven outflow from a sample of dwarf galaxies exhibiting prominent radio emissions. This sample of sources may represent the most powerful AGN powered by Intermediate Mass Black Holes (IMBHs) in dwarf galaxies. The proposed H I line measurements will provide valuable insights into the effects of AGN on star formation and gas content in these galaxies, contributing to a more comprehensive understanding of galaxy evolution.