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## Indirect detection of Dark Matter with radio observation

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Weakly Interacting Massive Particles (WIMPs) are most promising candidate of Dark Matter and annihilation of WIMPs could produce high-energy electrons.

In the presence of magnetic field, these high energy electrons emit synchrotron radiation.

Dwarf spheroidal galaxies (dSphs) are known to be Dark Matter dominated and low background object. Therefore dSphs are appealing candidates of indirect detection of Dark Matter.

We present the feasibility study of indirect detection of Dark Matter through radio observations against local dSphs.

The result of our analysis of archival radio data toward the Draco dwarf galaxy at 650MHz using GMRT and a proposal for new observations using e.g., JVLA will be presented.

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