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Radio constraints on Galactic WIMP dark matter

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Synchrotron emission from electron cosmic ray populations can be used to study both cosmic rays physics and WIMP dark matter imprints on radio skymaps. We used available radio data - from MHz to GHz - to analyze the contribution from galactic WIMP annihilations and impose constraints on WIMP observables: annihilation cross section, channel and mass. Depending on the annihilation channel we obtain as competitive bounds as those obtained in FERMI-LAT gamma ray analyses.

Author: Dr LINEROS, Roberto A. (IFIC (CSIC/U.Valencia))

Presenter: Dr LINEROS, Roberto A. (IFIC (CSIC/U.Valencia))

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