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Diffuse emissions from radio through microwaves to gamma rays

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Diffuse emission has dramatically increased the interest of the astrophysical community, due to recent detailed observations by Planck, Fermi-LAT, H.E.S.S. and VERITAS. Unfortunately disentangling and characterizing this diffuse emission strongly depends on uncertainties in the knowledge of unresolved sources, cosmic rays, matter, radiation fields, and magnetic fields.

We discuss here the diffuse emission produced by cosmic rays and its uncertainties. Thanks to observations and comparison of sophisticated models of the diffuse emission from radio through microwaves to gamma rays, we are gaining important insights on CR spectra and intensities throughout the Galaxy and in the inner heliosphere.

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