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Recents results on high-energy emissions from the Milky Way

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The Milky Way is the most prominent feature of the sky in all wavelengths of light. At the highest energies, the gamma-ray emission can tell us the story of cosmic rays in the Galaxy, but does not give us the possibility to distinguish between leptonic or hadronic emissions. This multi-wavelength scenario can be complemented by the observation of neutrinos; indeed, neutrinos can only come from hadronic emission mechanisms and would allow to directly track cosmic rays in the Milky Way.

In this contribution, the most recent results in multi-messenger searches for high-energy emissions from the central parts of our Galaxy will be reviewed; an overview of the latest results from neutrino telescopes will be given, their connection with gamma-ray and cosmic-ray measurements will be presented, and the perspectives for the next-generation of observatories will be addressed.

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