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High-energy emission from compact astrophysical objects

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Compact astrophysical sources represent the most extreme and powerful end-points of the life of massive stars. They power relativistic and magnetized plasma which interact with the ambient medium, leading to a large variety of phenomena observable in the high- and very-high energy regime. In particular the complex Pulsar/Pulsar Wind-Nebulae/Supernova Remnant blast provides an optimal scenario to study fundamental questions on plasma-magnetic field interactions, covering a wide range of dimension and acceleration regime scales, ranging from a few kilometres to more than 20 pc in some cases, and from a few thousands of kilometres per second to relativist velocities. We will review the most recent experimental results concerning this kind of objects and the implications in our current knowledge of the physics processes behind the observed radiation.

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