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Magnetic fields in the Milky Way

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I will present a quick summary of the current state of knowledge of interstellar magnetic fields in the Milky Way. I will focus on their turbulent component, which plays a decisive role in the acceleration, propagation and confinement of cosmic rays. I will discuss some recent observational breakthroughs, describe the theoretical tools that were developed to interpret radio observations, and summarize what we have ultimately learned from the new observations/

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