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Magnetic field in the Milky Way

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I will review our observational knowledge of the interstellar magnetic field in the Milky Way. I will first describe the main methods traditionally used to probe the interstellar magnetic field, and I will explain what the different methods have taught us regarding its strength, direction, and spatial distribution. I will then describe a new method, known as rotation measure synthesis or Faraday tomography, which combines synchrotron emission and Faraday rotation, and I will illustrate the potential of this method with a couple of examples.

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