Cosmic rays & their interstellar medium environment CRISM-2011



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Equipartition calculation for supernova remnants

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Equipartition or the minimum-energy calculation is a widespread method for estimating magnetic field strength and energy in the magnetic field and cosmic rays particles by using only the radio synchrotron emission. Despite of its approximate character, it remains a useful tool in situations when no other data about the source are available. We give a modified calculation which we think is more appropriate for estimating magnetic fields and energetics of supernova remnants.

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