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New Constraints on the Random Magnetic Field of the Galaxy

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The knowledge of the magnitude and coherence length of the random component of the Galactic Magnetic Field (GMF) is of fundamental importance for establishing the rigidity threshold above which astronomy with charged particles is possible.

Here we present a new study of the random component of the GMF using synchrotron intensity as measured by Planck, WMAP and Haslam et al and combine it for the first time with the observed fluctuations of the rotation measures of extragalactic radio sources. This combined information allows us to constrain both, the strength and coherence length of random magnetic field in the Galaxy.

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