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Mapping UHECR deflections through the random Galactic magnetic field

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We study the influence of the random part of the Galactic magnetic field on the propagation of ultra high-energy cosmic rays. We can derive an approximated but clear and direct relation to cosmic ray deflections, bypassing the detailed knowledge of the magnetic properties of the turbulent plasma. Thanks to the observational data on rotational measures, we then build a direction-dependent map of such deflections.

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