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Mathematics > Analysis of PDEs

On the lack of dispersion for a class of magnetic Dirac flows

[Naiara Arrizabalaga](), [Luca Fanelli](), [Andoni García]()

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We show that global Strichartz estimates for magnetic Dirac operators generally fails, if the potentials do not decay fast enough at in?nity. In order to prove this, we construct some explicit examples of homogeneous magnetic potentials with less than Coulomb decay, i. e. with homogeneity-degree more than -1, such that the magnetic ?field points to a ?fixed direction, which does not depend on $x\in \mathbb{R}^3$.

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