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Chiral kinetic theory in electromagnetic field and curved spacetime

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We develop a kinetic framework to describe the matter in which the fermions are chiral. We extend the previous works about the chiral kinetic theory in external electromagnetic field to the case of curved spacetime. The berry curvature and chiral anomaly are encoded automatically. We use our framework to analyze the chiral vortical effect (CVE) and show connections between CVE in rotating frame and in rotating fluid in inertial frame.

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