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Anomalous chiral matter and all that

Igor Shovkovy, Arizona State University

I review a range of anomalous phenomena with macroscopic consequences in various relativistic forms of matter. The corresponding phenomena came prominently to light only in the last decade in the realm of nuclear physics. Among the most interesting of them are the anomalous phenomena driven by the chiral magnetic, chiral separation, and chiral vortical effects. They can lead to observable signatures in heavy-ion collisions, stellar astrophysics, cosmology, and even in Dirac and Weyl semimetals.