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High-energy physics with particles carrying non-zero orbital angular momentum

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Photons carrying non-zero orbital angular momentum (twisted photons) are well-known in optics. Recently, it was suggested to use Compton backscattering to boost optical twisted photons to high energies. Twisted electrons in the intermediate energy range have also been produced recently. Thus, collisions involving energetic twisted particles seem to be feasible and represent a new tool in high-energy physics. Here we discuss some features of a generic scattering process involving twisted particles and discuss what insights into the structure of hadrons they can offer.

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