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Orbital Angular Momentum Beams for Probing Chiral Fluctuations

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Chiral fluctuations can be found close to a phase transition in helical or spiral magnetic systems. Due to their inherent non-zero magnetic moment measuring fluctuations is non-trivial. Here the possibility to use the orbital angular momentum of x-rays is discussed as an avenue to understanding the entropic driving forces driving these fluctuating frustrated systems.

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