

HUNTING FOR HIDDEN MAGNETIC ORDER

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So-called magnetoelectric multipoles can lead to intriguing magnetic behaviors, which are often attributed to „hidden order“ since they are difficult to characterize with conventional probes. I will describe how they underlie multiferroic behavior and determine the magnetic response to applied electric fields. Then I will discuss signatures of hidden magnetoelectric multipolar order and possibilities for its direct measurement. Finally, I will show that the bulk magnetoelectric multipolization causes a magnetization at the surface, even in materials with no net magnetization in their bulk.

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