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Bismuth Ferrite BFO

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Bismuth Ferrite is the best studied room temperature multiferroic due to its potential applications as magnetoelectric memory and in magnetic sensing. Its magnetic order is a result of spin moment coupling of the iron ions. A modified G-type antiferromagnetism yields an effectively vanishing gross magnetization. Magnetic order in Bismuth Ferrite becomes intricate due to the formation of the incommensurate spin cycloid. This presentation reports on preliminary characterization data in Bismuth Ferrite.

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