Exploration of long-range spin-triplet correlations in superconductor/ferromagnetic hybrid systems\(^1\) WILLIAM MARTINEZ, W.P. PRATT, JR., NORMAN O. BIRGE, Michigan State University — Since the prediction of long-range spin-triplet correlations (LRTCs) in superconductor/ferromagnet (S/F) systems,\(^1\) their realization has been investigated by many groups. From F-N bilayers to intrinsic generation of spin-triplet through domain walls, there is wide interest in observing a signal at ranges beyond the tens of \(\text{nm}\) observed in earlier work.\(^2\)

In this work, we examine the propagation of LRTCs extrinsically generated through noncollinear magnetization, at long (100\(\text{nm}\)) length scales. We will report on our recent progress.

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