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Refraction and reflection process in a ferromagnet/frustrated-ferromagnet junction HIROAKI UEDA, YUTA SASAKI, Tokyo Metropolitan University — The refraction and reflection process plays an important role in controlling a propagation of spinwave. In this presentation, we study the refraction and reflection process of spinwave in the junction of the (usual) ferromagnet/frustrated ferromagnet junction. Frustration induces a nontrivial dispersion relation of spinwave even in the fully polarized ferromagnet phase. As a result, we find exotic refraction processes such as the splitting of spin waves and the negative refraction.

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