Dear Editors,

Thanks for your mail attached with reports on our manuscript (LN15708B).

We also thank the two referees very much for their kind review. Following the suggestions of the first referee, we have made some changes on the text. We believe the present manuscript is suitable for publication in PRB.

The replies to the questions raised by the first referee and the main changes in the manuscript following his/her suggestions are listed below.

Best wishes,

Xiao-Fei Su, Zhao-Long Gu, Zhao-Yang Dong, and Jian-Xin Li

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Changes:

1. **Abstract:**
2. The sentence "This is the first proposal of itinerant topological magnons" is removed.
3. **Main text:**
4. The sentence "This is the first proposal of itinerant topological magnons" is removed in the first paragraph in Sec. V.

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**Response to the referee A:**

We thank the referee very much for his/her valuable comments and suggestions. Following is our reply to the referee’s report.

1. The authors claimed that their work "is the first proposal of the itinerant topological magnons" in the revised manuscript. However, this work much focuses on the computational results, with the underlying physical mechanism not well understood. Therefore, this manuscript, while forms a good piece of work, does not guarantee the novelty as claimed in my opinion. Such claim should be removed, unless the fundamental mechanism could be provided.

We agree with the refer and this claim has been removed in our revised manuscript.

1. In the reply, the authors state that "the Berry phase of the Stoner continuum is π mod 2π", does this mean that there is also nontrivial topological magnon in the Stoner continuum?

In itinerant magnets, magnons are collective spin-1 particle-hole excitations while the Stoner continuum consists of individual spin-1 particle-hole excitations. Therefore, the modes in a Stoner continuum are not regarded as magnons. So, we cannot say that there is also nontrivial topological magnon there.