## Summary of important changes to the manuscript

- 1. We have modified the title from "Time Crystal Embodies Chimera in Periodically Driven Quantum Spin System" to "Time crystal embodies chimeralike state in periodically driven quantum spin system"
- 2. We have introduced and briefly discussed a few recent developments in the field of time crystals in the introduction section on page 2, para 3.
- 3. We have included how DTC is defined in DMBL systems and its fundamental properties in the introduction section on page 3, para 2. Additionally, we discussed the realization of DTC in spin-1/2 system incorporating DMBL on para 3.
- 4. We have introduced a discussion on the naming issue of 'chimeralike state' of our proposed quantum model in the revised manuscript on page 4, para 2.
- 5. We have explained the selection of high drive frequency and CDT/DL point to be the first root of Bessel function at page 7 last para.
- 6. We have discussed how the time evolution of local magnetization and its FFT analysis contributes to detect DTC phase in the revised manuscript at page 3, para 3 and page 9, para 2.
- 7. We have updated figures 5, 9, 10.
- 8. We have included discussion on stability of chimeralike state when  $\epsilon_B$  is varied in the revised manuscript from page 12 last para to page 14 para 1.
- 9. We have included a extensive investigation of stability of chimeralike state when  $\epsilon_A$  and  $\epsilon_B$  are varied in the revised manuscript from page 15 para 4 to page 18 in section 5.1 Regional magnetization.
- 10. We have included a subsection discussing the chimera like states when the spin-1/2 chain is updated with larger system size. Additionally, we have included figure 12 in support of the discussion.
- 11. We have improved the section 6. including the practical applications of the chimeralike state.
- 12. We have included a discussion on the stability of the chimeralike state when the drive amplitude is slightly deviated from the CDT/DL point in the revised manuscript from page 30.

<sup>[1]</sup> S. Liu, S.-X. Zhang, C.-Y. Hsieh, S. Zhang, and H. Yao, Phys. Rev. Lett. 130, 120403 (2023).

<sup>[2]</sup> R. Chandra and A. Roy, Physics Letters A 511, 129552 (2024).

<sup>[3]</sup> J. Zhang, P. W. Hess, A. Kyprianidis, P. Becker, A. Lee, J. Smith, G. Pagano, I.-D. Potirniche, A. C. Potter, A. Vishwanath, N. Y. Yao, and C. Monroe, Nature **543**, 217 (2017).

<sup>[4]</sup> M. P. Zaletel, M. Lukin, C. Monroe, C. Nayak, F. Wilczek, and N. Y. Yao, Rev. Mod. Phys. 95, 031001 (2023).

<sup>[5]</sup> M. Rahaman, T. Mori, and A. Roy, Phys. Rev. B 109, 104311 (2024).

<sup>[6]</sup> J. Sharma, I. Tiwari, D. Das, and P. Parmananda, Phys. Rev. E 103, 012214 (2021).