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The Dzyaloshinskii-Moriya Anisotropy in Hyper-Kagome Lattice for $\text{Na}_4\text{Ir}_3\text{O}_8$ GANG CHEN, LEON BALENTS, UCSB — The effect of quantum correction on the classical spin order in the iridium antiferromagnet $\text{Na}_4\text{Ir}_3\text{O}_8$ are considered. The spin-wave spectrum is calculated to the linear order. The nearest-neighbor exchange interactions between the Irspins as well as the Dzyaloshinskii-Moriya interactions are taken into account. Numerical simulation by exact diagonalization and experimental results are used to compare with the theoretical prediction.

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