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**Spin dynamics in the kagomé ice state** YOSHIKAZU TABATA, Osaka University, Japan, HIROAKI KADOWAKI, Tokyo Metropolitan University, Japan, KAZUYUKI MATSUHIRA, Kyushu Institute of Technology, Japan, ZENJI HIROI, NAOFUMI ASO, ISSP, University of Tokyo, Japan, BJÖRN FÅK, CEA-Grenoble, France — Macroscopic degeneracy of the spin ice state in the geometrically frustrated pyrochlore oxide  $\text{Dy}_2\text{Ti}_2\text{O}_7$  is partly or fully released under magnetic fields. For field along a [111] axis, it was proposed that another macroscopic degeneracy with a finite zero-temperature entropy occurs in the frustrated kagomé layers, which are built in the pyrochlore lattice. We have investigated this kagomé ice state using single-crystalline neutron scattering experiments. Spin correlations, i.e. scattering intensity maps, will be discussed based on Monte-Carlo simulations of the spin-ice model with the dipolar interaction.

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