



Contribution ID: 59

Type: **Talk**

Magnetic spin dynamics in Mn-hureaulite

Thursday, 17 March 2022 09:00 (20 minutes)

Various spin-canting sublattices at three unique Mn sites in the ferrimagnetic phase ($C2'/c'$) of $Mn_{2+5}(PO_4)_2(PO_3(OH))_2(HOH)_4$ ($C2/c$) explains a weak ferromagnetism. Below the Curie temperature (6.17 k), magnetic spin-canting reorientations continuously proceed. This vivid spin dynamic system could be confirmed by ac magnetic susceptibility under oscillating magnetic within a frequency window of 10-10000 Hz. Details of these vital magnetic spin dynamics are reported at the meeting DGK 2022.

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Session Classification: Crystal Physics

Track Classification: Main conference: Solid State Physics and Crystal Physics