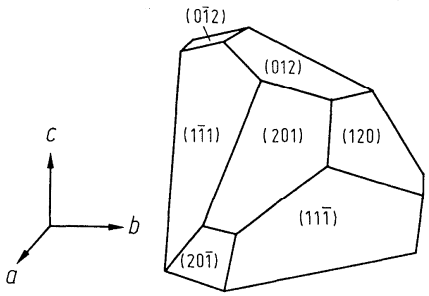

Fig. 43A-8-001. $K_2Mn_2(SO_4)_3$. Crystal form of crystal grown from the aqueous solution [77Hik].

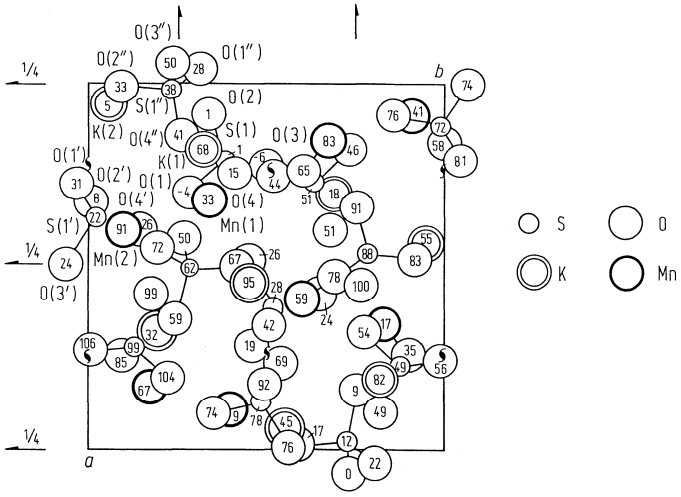

Fig. 43A-8-002. $K_2Mn_2(SO_4)_3$. Crystal structure of cubic phase. Projection on the (001) plane [81Yam]. The atoms which are related by symmetry elements are primed. Fractional coordinates [$\cdot 10^2$] are inscribed into each atom.

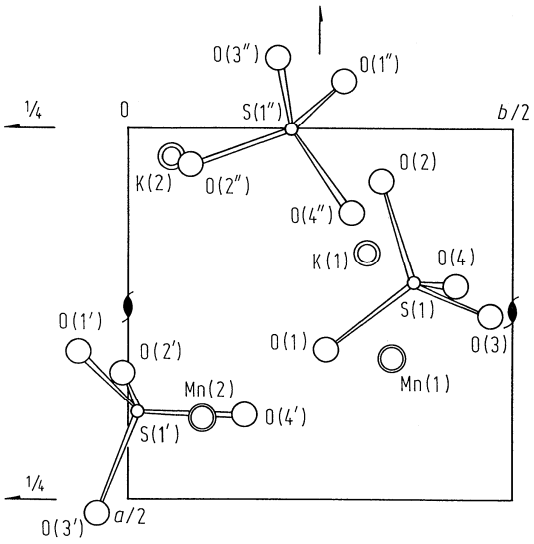

Fig. 43A-8-003. $K_2Mn_2(SO_4)_3$. Crystal structure of orthorhombic phase. Projection on the (001) plane [81Yam]. Only a quarter of the unit cell is shown.

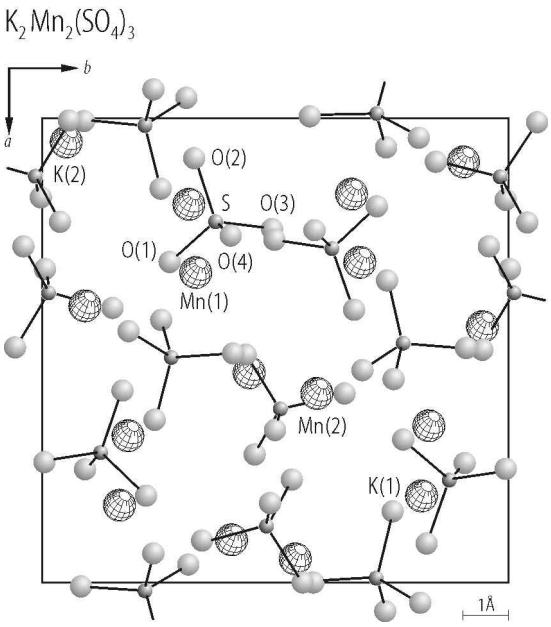

Fig. 43A-8-004. $K_2Mn_2(SO_4)_3$. Structure of phase I [95Uke]. Projection along the *c* axis.

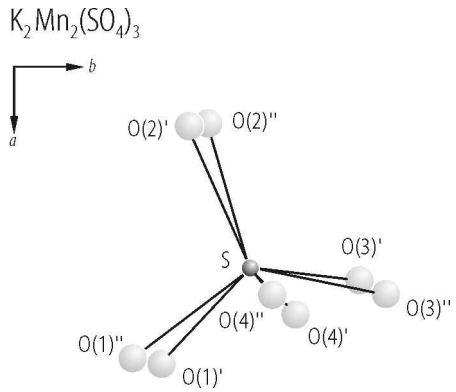

Fig. 43A-8-005. $K_2Mn_2(SO_4)_3$. Structure of phase I [95Uke]. Two arrangements of the disordered SO_4 ion.

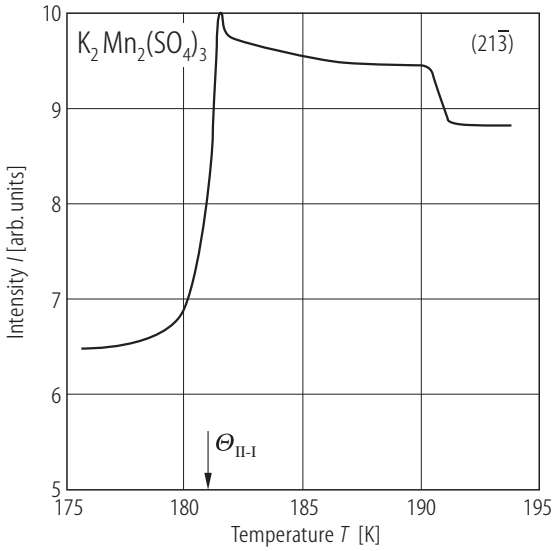

Fig. 43A-8-006. $K_2Mn_2(SO_4)_3$. I vs. T [92Ito]. I: X-ray diffraction intensity at $(21\bar{3})$.

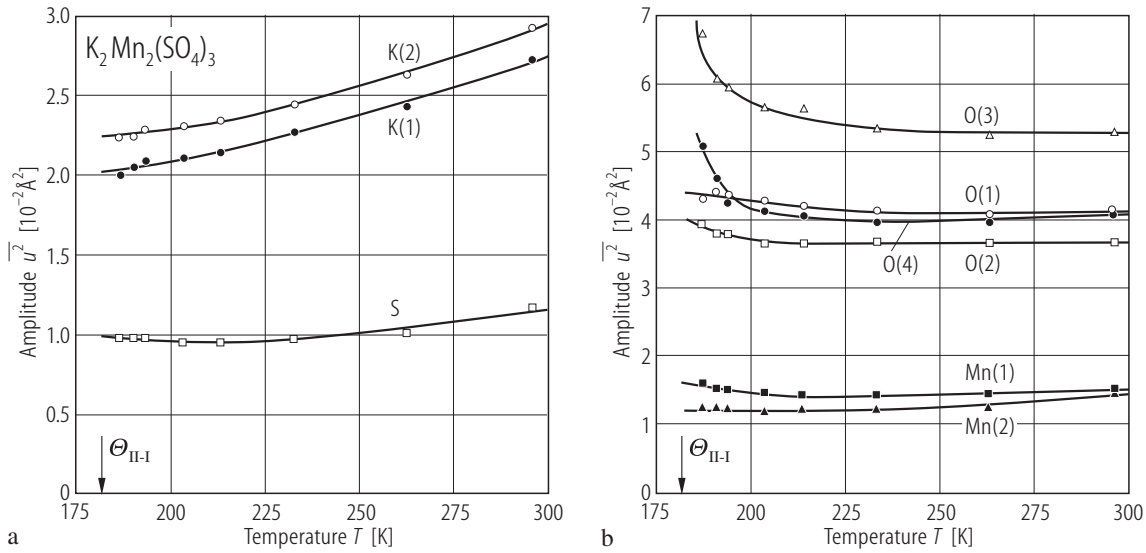

Fig. 43A-8-007. $K_2Mn_2(SO_4)_3$. $\overline{u^2}$ vs. T [95Uke]. $\overline{u^2}$: mean-square thermal displacement.

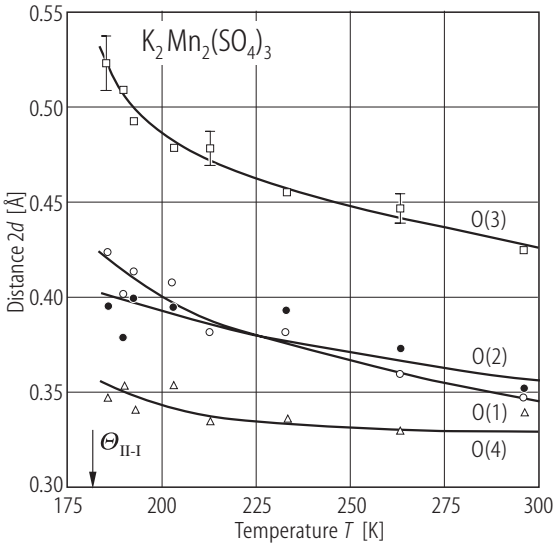

Fig. 43A-8-008. $K_2Mn_2(SO_4)_3$. Structure of phase I [95Uke]. 2*d* vs. *T*. 2*d*: distance between two equilibrium positions of the disordered oxygen atoms.

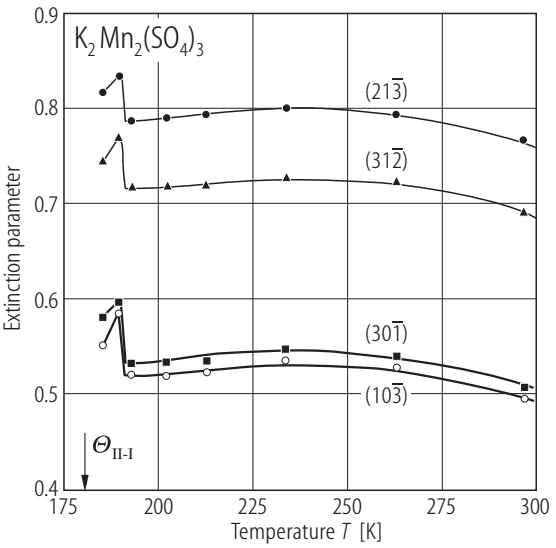

Fig. 43A-8-009. $K_2Mn_2(SO_4)_3$. Extinction parameter vs. *T* [92Ito].

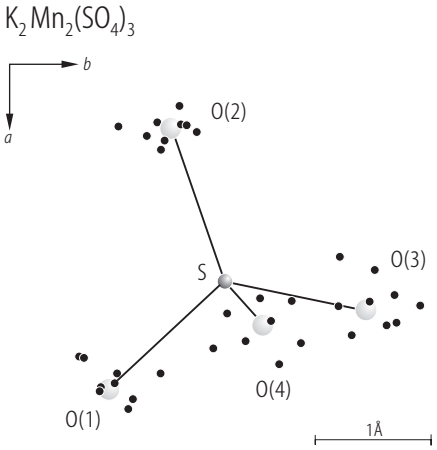

Fig. 43A-8-010. $K_2Mn_2(SO_4)_3$. Multi-site model for SO_4 groups [96Mor]. Disordered ion derived from 9-position model (186 K). Full circles stand for the positions of split O atoms. The average positions of the S and O atoms are depicted by shaded circles.

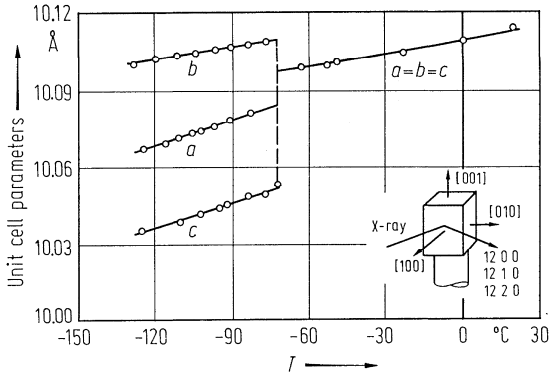

Fig. 43A-8-011. $K_2Mn_2(SO_4)_3$. Unit cell parameters vs. T [78Hik].

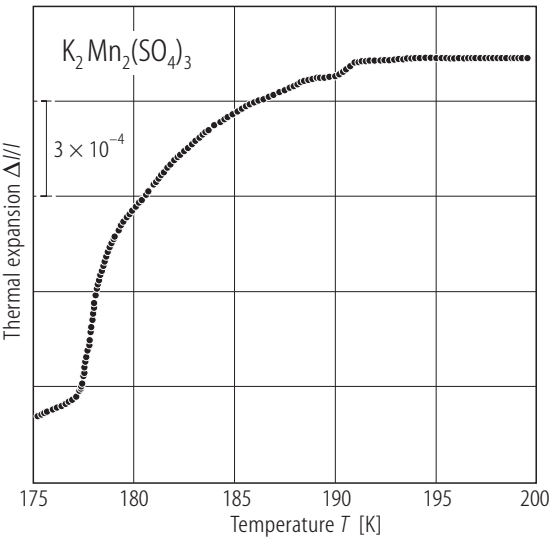

Fig. 43A-8-012. $K_2Mn_2(SO_4)_3$. $\Delta l/l$ vs. T [88Kah]. $\Delta l/l$: fractional thermal expansion along the ⟨111⟩ axis. Relative to the brass dilatometer cell.

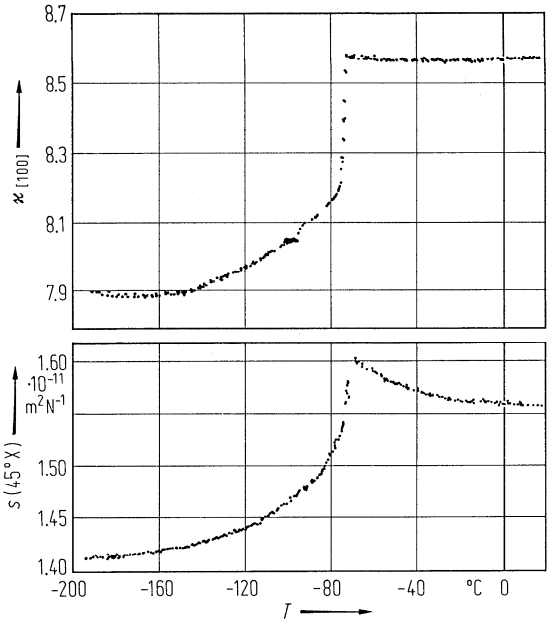

Fig. 43A-8-013. $K_2Mn_2(SO_4)_3$. $\kappa_{[100]}$, $s(45°\ X)$ vs. T [77Hik]. $s(45°\ X)$: elastic compliance of 45° X-cut bar. $\kappa_{(100)}$ at $f = 1$ kHz.

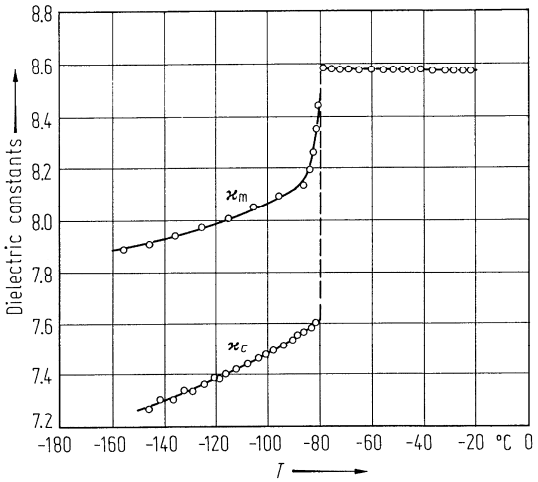

Fig. 43A-8-014. $K_2Mn_2(SO_4)_3$. κ_c, κ_m vs. T [78Yam]. κ_m: dielectric constant measured on multidomain crystals. $f = 1$ kHz.

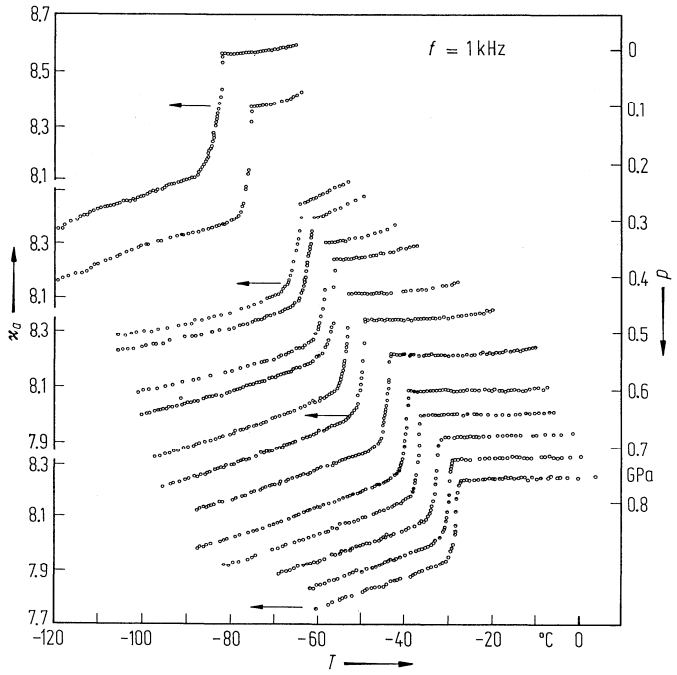

Fig. 43A-8-015. $K_2Mn_2(SO_4)_3$. κ_a vs. T [80Hik]. Parameter: p. The pressure at the II–I transition can be read from the right-hand side ordinate. Only representative curves indicated by arrows correspond to κ_a scales (left-hand side ordinate).

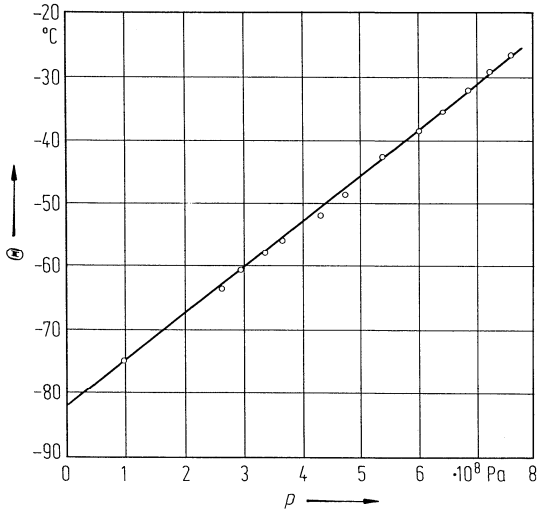

Fig. 43A-8-016. $K_2Mn_2(SO_4)_3$. Θ vs. p [80Hik].

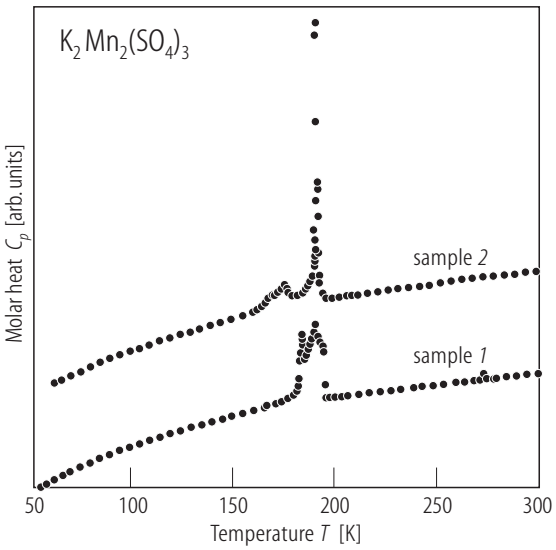

Fig. 43A-8-017. $K_2Mn_2(SO_4)_3$. C_p vs. T for different samples [89Boe]. C_p: molar specific heat at constant pressure. The top curve for sample *2* is shifted by 200 J K^{-1} mol^{-1} from that for sample *1*.

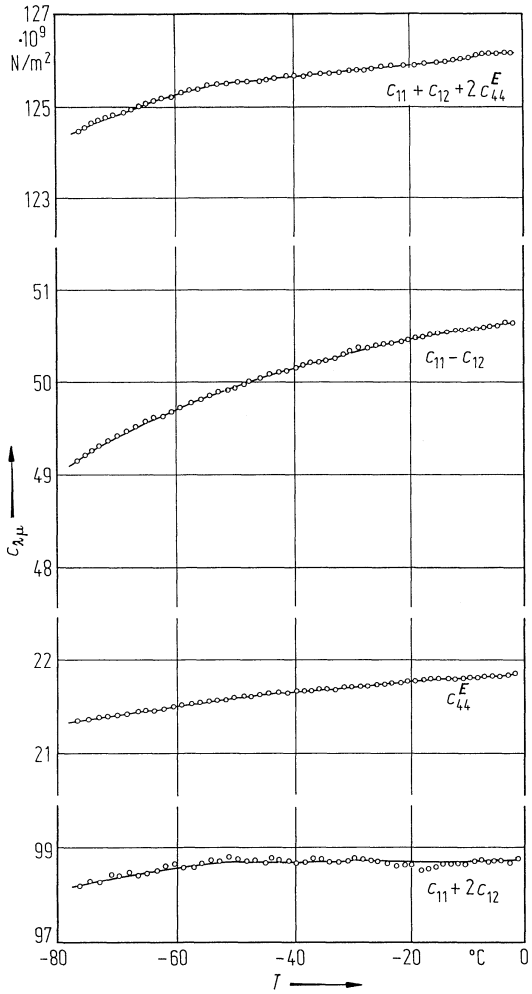

Fig. 43A-8-018. $K_2Mn_2(SO_4)_3$. Elastic stiffnesses vs. T [79Mae]. f = 10 MHz.

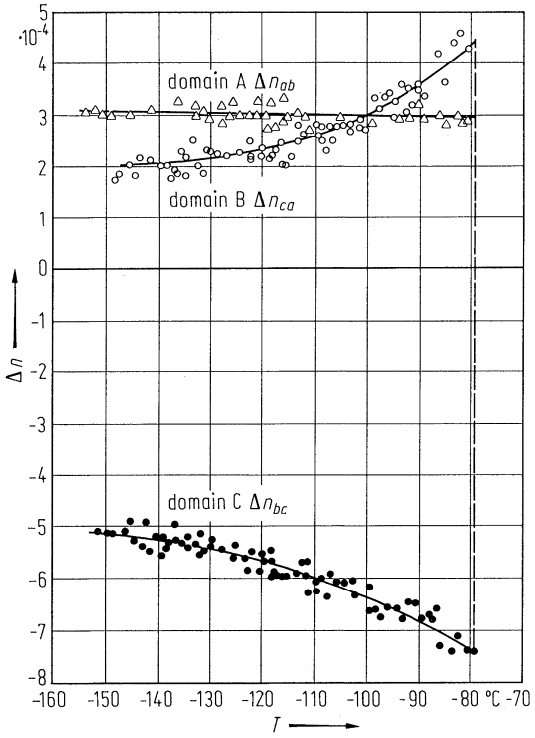

Fig. 43A-8-019. $K_2Mn_2(SO_4)_3$. Δn vs. T [78Yam]. Three types of domains (A, B, C) were observed in the low temperature phase according to the magnitude of birefringence. $\Delta n_{ab} = n_b - n_a$, $\Delta n_{ca} = n_a - n_c$, $\Delta n_{bc} = n_c - n_b$.

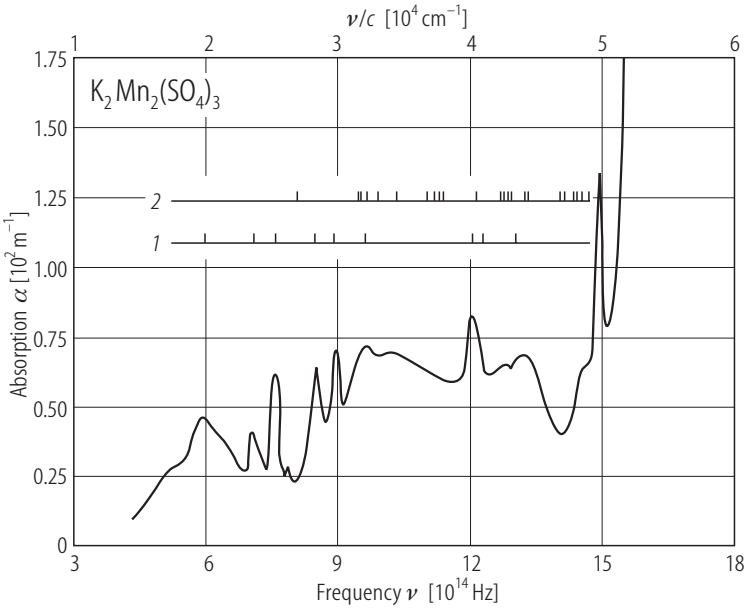

Fig. 43A-8-020. $K_2Mn_2(SO_4)_3$. α vs. ν [89Bre]. α: optional absorption coefficient. *1* and *2* indicate calculated frequencies for $^6A_1 \rightarrow {}^4\Gamma$ and $^6A_1 \rightarrow {}^2\Gamma$, respectively.

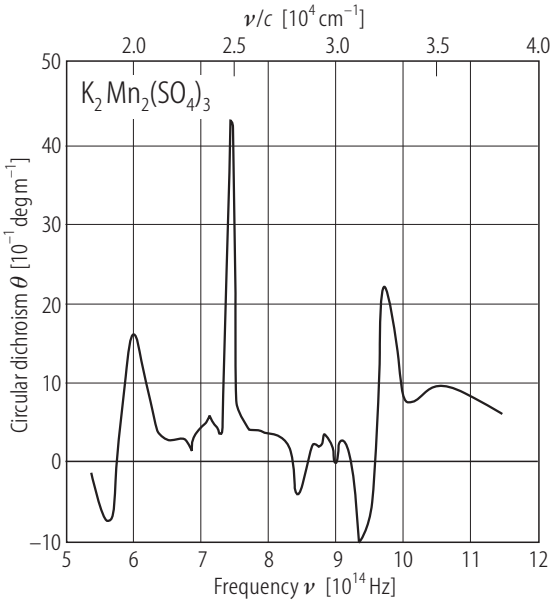

Fig. 43A-8-021. $K_2Mn_2(SO_4)_3$. θ vs. ν [89Bre]. θ: circular dichroism.

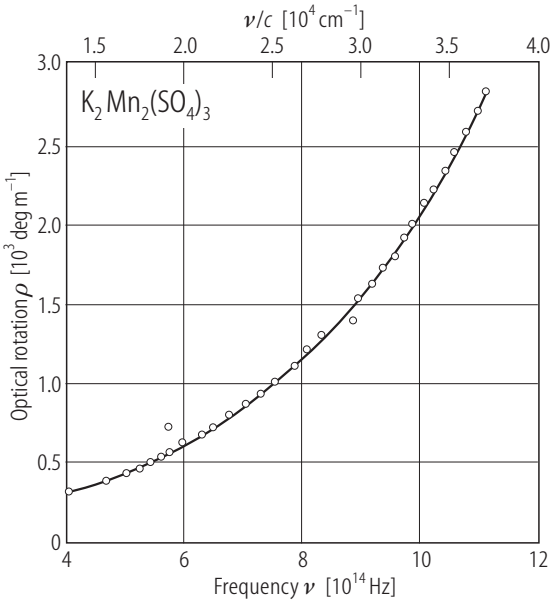

Fig. 43A-8-022. $K_2Mn_2(SO_4)_3$. ρ vs. ν [89Bre]. ρ: optical rotation.

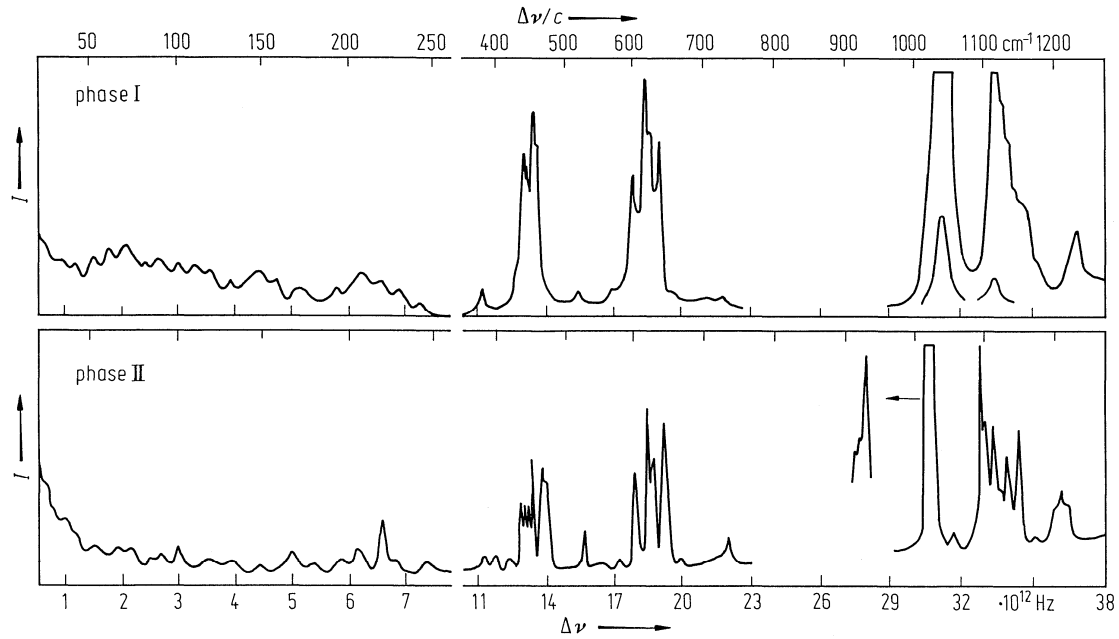

Fig. 43A-8-023. $K_2Mn_2(SO_4)_3$. *I* vs. Δ*ν* [82Kre]. *I*: Raman scattering. Scattering geometry: *Z(YY)X*.

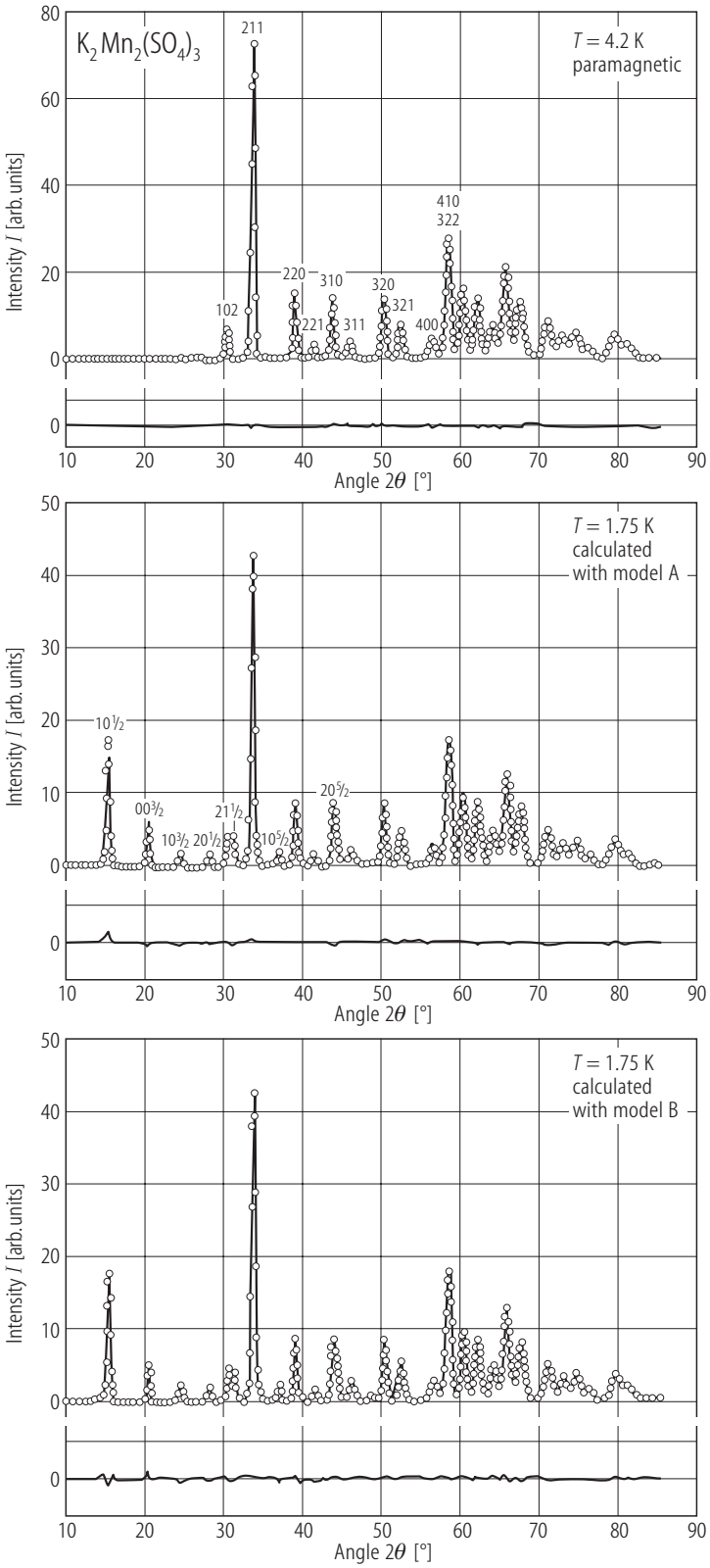

Fig. 43A-8-024. $K_2Mn_2(SO_4)_3$. Calculated (–) and observed (open circle) neutron diffraction intensities at 4.2 K and 1.75 K [88Oel]. Calculated intensities (smooth curves) are based on two different models A and B.

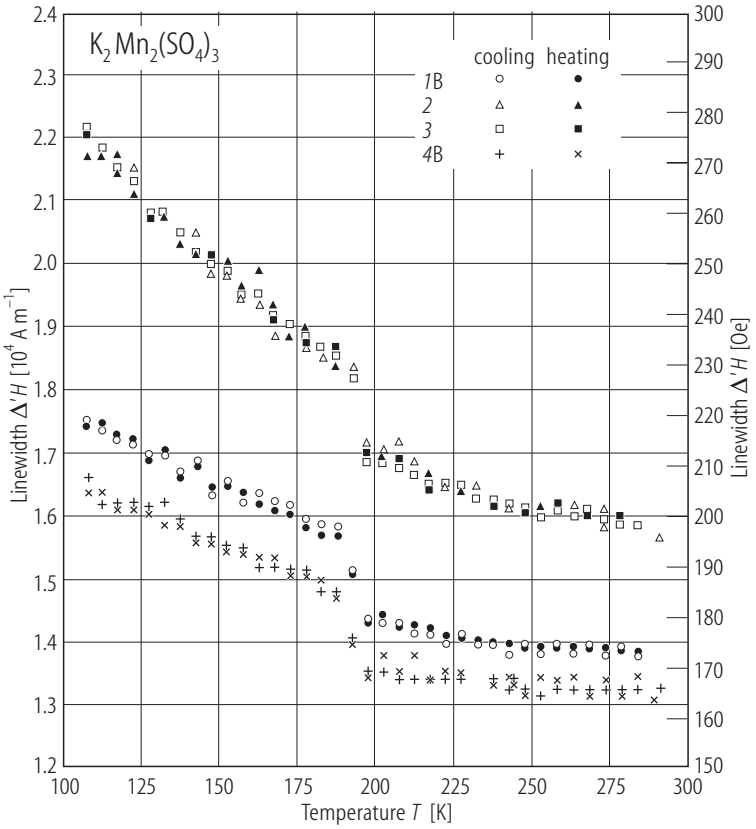

Fig. 43A-8-025. $K_2Mn_2(SO_4)_3$. $\Delta'H$ vs. T [98Tan]. $\Delta'H$: linewidth of Mn^{2+} resonance. The numbers show sample crystals.