

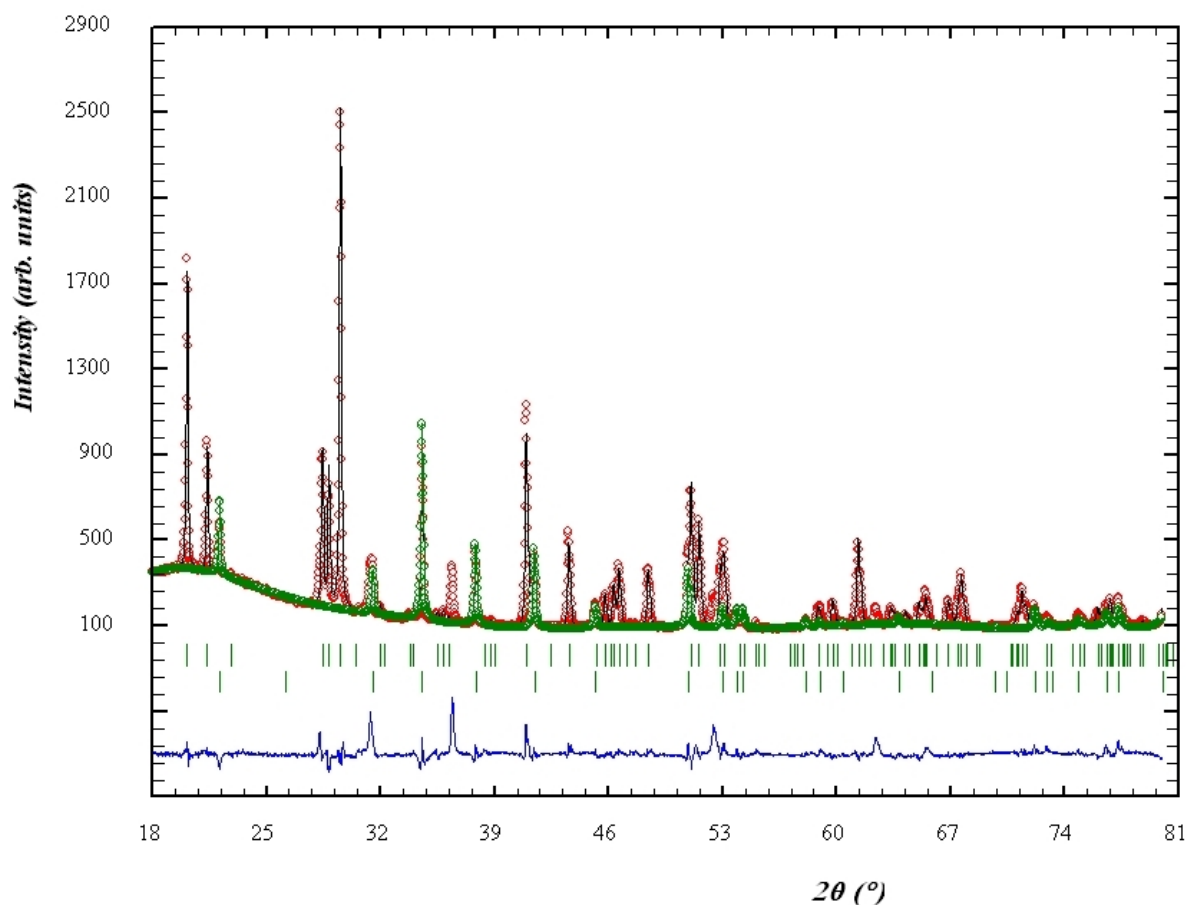
ESI to the paper by Z. Mazej *et al.*

KAgF₃, K₂AgF₄ and K₃Ag₂F₇: Important Steps Towards a Layered Antiferromagnetic Fluoroargentate (II)

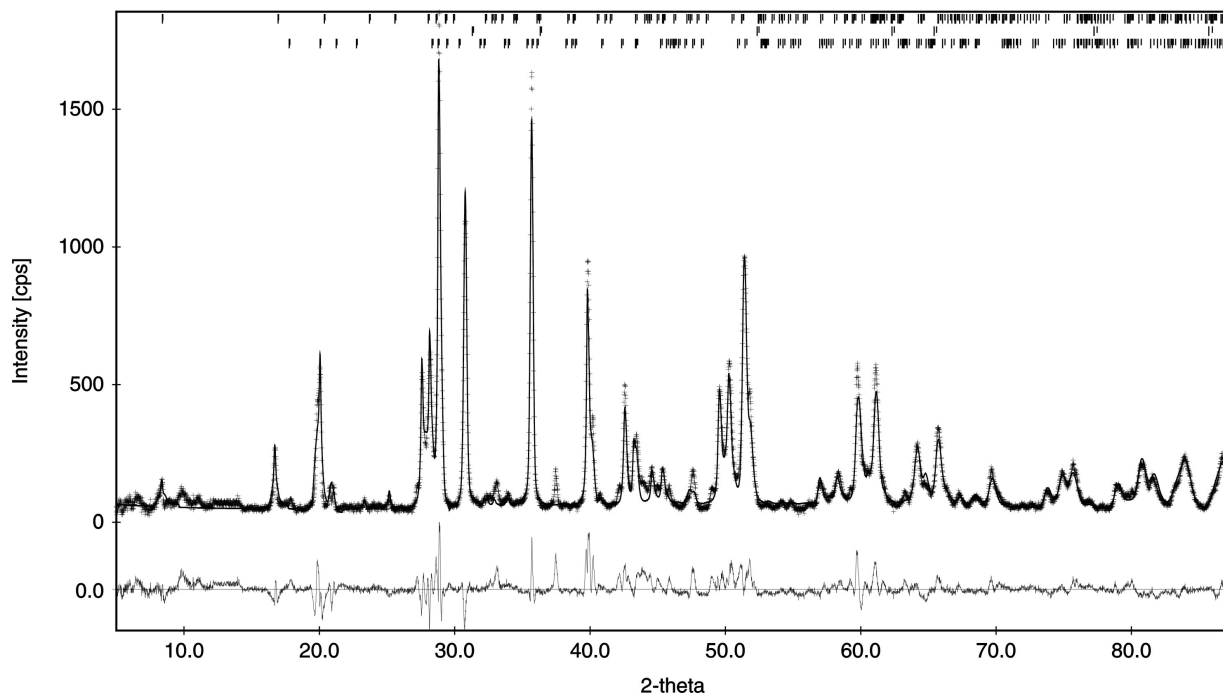
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5. The measured and fitted ESR signal of K₂AgF₄ (at 150 K).

1. Comparison of the measured and calculated XRDP of KAgF₃ (Rietveld method, 2-phase refinement, *cf.* main paper).



2. Comparison of the measured and calculated XRDP of $K_3Ag_2F_7$ (Rietveld method, 3-phase refinement, cf. main paper).



3. Location of atoms in the unit cells of $KAgF_3$, K_2AgF_4 and $K_3Ag_2F_7$ on special positions.

$KAgF_3$:

Ag1 inversion center
 K2 general position
 F3 mirror plane
 F4 mirror plane

K_2AgF_4 :

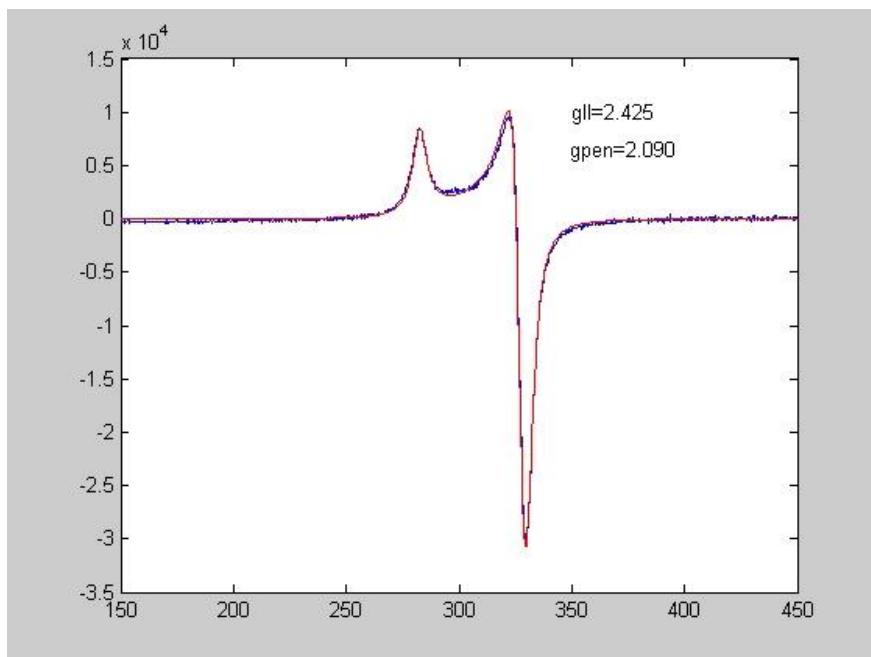
Ag1 2/m
 K1 mirror plane
 F1 mirror plane
 F2 twofold axis

$K_3Ag_2F_7$:

Ag 2-fold axis
 F1 at the intersection of three 2-fold axes
 F2 2-fold axis
 K1 2-fold axis
 F3 general position
 K2 at the intersection of three 2-fold axes

4. The measured (blue) and fitted (red) ESR signal of $KAgF_3$ (at 150 K).

The values of components of the g tensor derived for the 150–300 K temperature range do not indicate any crystallographic phase transition; no temperature draft at all is seen of the $g_{\perp}$ and $g_{\parallel}$ values.



5. The measured (blue) and fitted (green) ESR signal of K_2AgF_4 (at 150 K).

The values of components of the g tensor derived for the 110–300 K temperature range do not indicate any crystallographic phase transition; only a very small temperature draft is seen: $2.27 > g_{\perp} > 2.26$, $2.085 > g_{\parallel} > 2.07$.

