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## Heterogeneity of antiferroelectric phase of mixed radp crystals: Epr investigation

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### Abstract

Detailed study of antiferroelectric (AFE) branch of mixed crystals  $Rb_x(NH_4)_{1-x}H_2PO_4$ , phase diagram  $x > 0.74$  has been carried out by means of  $Tl^{+}$  EPR probe. The coexistence of two structurally nonequivalent centers of thallium in low-temperature AFE phase was discovered. The analysis of EPR spectra parameters indicate that one of both centers exhibits some glass-like behaviour, resembling the EPR of  $Tl^{2+}$  in proton glass  $x < 0.74$ . © 1995, Taylor & Francis Group, LLC. All rights reserved.

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### Keywords

EPR, phase transitions, proton glass