1:1 ordering of type $P4_122$–$P4_322$ through octahedral positions, the phase-transition theory of Landau anticipates a first-order transition (Hass, 1965). In fact a first-order transition does occur in $Zn(ZnTi)O_4$: at equilibrium temperature (552 °C) one notices the presence of both the cubic disordered form (*C*) and tetragonal ordered form (*Q*). However, if zinc is replaced by another divalent ion, $Zn(Zn_{1-x}M_xTi)O_4$, the tetragonal form at low temperature is gradually disordered according to the increase in substitution rate x; the lengths of the edges of the pseudocubic tetragonal unit cell gradually become equal until the compound is indeed perfectly cubic anew; the transition is then continuous; at any time there is *one* phase only; so here indeed is a *second*-order transition (Delamoye, Billiet & Michel, 1970; Delamoye, Billiet, Morgenstern-Badarau & Michel, 1967). This might even be a paradox! Then there would be, as in some liquid–vapour diagrams, a miscibility gap and a critical point in the phase diagram of $Zn(Zn_{1-x}M_xTi)O_4$ (Fig. 1)? Would Landau's theory be inaccurate? There are other questions!

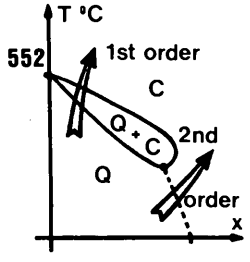

Fig. 1. Hypothetical phase diagram of $Zn(Zn_{1-x}M_xTi)O_4$.

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Use of matrix direct methods for low-resolution phase extension for tRNA: erratum.

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In Podjarny & Yonath [*Acta Cryst.* (1977). A**33**, 655–661] the matrix order in Table 1 and point T5(MODF) of Fig. 2 should read 100 instead of 226. The matrix order in points T3(MIR) and T3(MODF) of Fig. 2 should read 450 instead of 226. The MW value of predicted and MIR phases correlation in the whole 3 Å sphere in Table 1 should read 0·2 and not 0·85. Figs. 6(*c*) and 6(*d*) should be interchanged.

All information is given in the abstract.

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