



Fig. 5.  $V/M$  and  $\alpha$  in  $Tb(Fe_{1-x}Co_x)_2$  alloys with increasing Co substitution.

A rhombohedral distortion of a cubic structure in  $Tb_3Fe_5O_{12}$  at 6.75K has been reported by Tcheou, Bertaut, Delapalme, Sayetat & Fuess (1970). These authors have discussed the magnetic ordering of the Tb and Fe moments and its relationship to the crystal structure.

Although Tb is the only lanthanide with compounds that exhibit rhombohedral distortion, actinide compounds are known that distort rhombohedrally at low temperatures (below their Curie temperature). Examples are US and USE (Marples, 1970) and NpN (Lander & Mueller, 1973).

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