Electric Field Gradients at the In Site in Au-In Compounds*

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The quadrupole interaction in Au-In compounds of different stoichiometries was studied with the perturbed angular correlation technique. The electric field gradients at $^{111}$Cd probes were measured and the temperature dependences of the quadrupole frequencies were determined. A new high temperature phase of AuIn above 630 K and a new metastable modification of Au$_7$In$_3$ were found.

*Key words:* Perturbed Angular Correlations; EFG; Intermetallic Compounds; Au-In System.

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