



Structural Studies of Liquids and Glasses Using Aerodynamic Levitation (Springer Theses)

Thomas Farmer

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This thesis presents neutron scattering data that contribute to the understanding of four distinct areas of condensed matter physics, including iso-compositional liquid-liquid phase transitions and the glass formation in rare earth doped BaTi₂O₅.

In situ aerodynamic levitation with laser heating was combined with neutron scattering in order to study both liquid-liquid phase transitions in (Y₂O₃)_x(Al₂O₃)_{1-x} and the atomic and magnetic ordering in liquid Invar. Among several significant results, obtained in this case from small angle neutron scattering, was the absence of a phase transition across a range of temperatures and compositions in the yttria aluminates. As these are a principal system in which liquid-liquid phase transitions have been hypothesized, this is an important contribution in a contentious area.

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