



ICAMS Seminar

Prof. Dr. Tony Paxton

Theory and modelling in condensed matter,
Queen's University Belfast, Northern Ireland

Monday, June 27, 4:30 p.m. ICAMS Seminar room UHW 11/1102

Anomalies in plastic deformation of TiAl and some other tight
binding calculations

The talk is in two parts. In the first I will show how using a bond order potential we can understand a number of the anomalies in the deformation in TiAl including the Schmid Law violation, channelled flow and the yield anomaly. In the second part I will discuss new tight binding models for iron and its interstitial impurities, carbon and hydrogen including implications for the construction of the associated bond order potentials.

For more information contact STKS secretary: Hildegard.Wawrzik@rub.de

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