ICAMS Seminar

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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.