

Theoriekolloquium

Am **5. Mai 2011** um **14.15 Uhr** in **W2 1-143** hält

Herr Prof. Dr. Philipp Maaß (Osnabrück)

einen Vortrag mit dem Titel

Fluctuation effects and cluster formation in kinetic thin film growth

Solid structures of nanoscale dimensions have opened a field of new physics and materials with novel properties. A widely applied preparation method is the self-organized structure formation by deposition of atoms and molecules on surfaces, where the interplay of diffusion, aggregation, segregation and superlattice ordering yields a rich variety of growth phenomena. The resulting structures are usually frozen-in non-equilibrium structures with properties distinctly different from the equilibrium bulk phases. In my talk I will present theories and models for three interrelated problems: (i) island growth in the first layer, (ii) second layer nucleation, (iii) growth of binary alloy nanoclusters with perpendicular magnetic anisotropy, and (iv) second layer induced morphologies of fullerene clusters on insulating substrates.

Interessierte sind herzlich eingeladen.

gez. Prof. Dr. Andreas Engel