

平成 19 年 9 月 21 日

応用物理学会北海道支部
会員各位

応用物理学会北海道支部

講演会のお知らせ

下記講演会を開催いたしますので、多数ご参加下さいますようご案内申し上げます。

演題：Submonolayer Growth, Second Layer Nucleation and Cluster Formation on Surfaces

講師：Prof. Philipp Maass 氏

(Institute of Physics, Technical University Ilmenau, Germany)

日時：平成 19 年 10 月 4 日 (木) 16:00 ~ 17:30

場所：北海道大学工学部物理工学系会議室 (A3-62)

主催：応用物理学会北海道支部

講演の要旨

Solid structures of nanoscale dimensions open a wide field of new physics and materials with novel properties. A widely applied preparation method is the self-organized structure formation by deposition of metals on surfaces, where the complex interplay of adatom deposition, 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 theoretical results for three interrelated problems: (i) The nucleation and growth of binary alloys in the submonolayer regime, (ii) the second layer nucleation, which controls the resulting film morphology, and (iii) the growth of magnetic binary alloy nanoclusters with respect to the influence of ordering, segregation and shape effects on the formation of perpendicular magnetic anisotropy.

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