Effect of external magnetic fields on the surface evolution of magnetic thin films

Date: 13th October 2006 (Friday)
Time: 12:30 to 13:00 pm
Venue: LT 3

Abstract

Stranski-Krastanow (SK) growth mode by strained heteroepitaxial films dots. Traditionally, the SK transition is controlled by the balance of the surface, strain and interaction energies. These parameters, however, are hard to control. It is therefore desirable to introduce another energy that is easily tunable so that the system can be controlled with relative ease.

External magnetic fields can be used to stabilize or destabilize the surface of magnetic thin films, depending on their orientation with respect to the film surface. Furthermore, they can be used to activate and control SK growth on magnetic thin films even without the presence of interaction energy between the film and the substrate.

Mr. Gerald Paul Leyson Speaker

Mr. Gerard Paul Leyson obtained his Bachelor's Degree from Materials Science Department, NUS. He is now pursuing his Masters Degree in the Department of Materials Science and Engineering Department, NUS.

ALL ARE WELCOME!