

11/12–16/03: Invited talk at the International Symposium on Advanced Magnetic Technologies Conference, Taipei, Taiwan

11/21–24/03: Invited talk at the Chinese Academy of Sciences, Beijing, China

Coupling and Phase Transitions of Magnetic Nanostructures*

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Abstract

In surface-supported magnetic nanostructure assemblies, the role of indirect exchange coupling has not been well studied. I will use Fe dots on Cu(111) substrate as an example to demonstrate how such kind of coupling can affect the magnetic phase transitions. In the second part of the talk, I will show some unexpected structural and magnetic phase transitions in 1D and 2D FeCo alloys that are not observed in their 3D counterpart.

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