



FIRST INTERNATIONAL NANOTECHNOLOGY CONFERENCE ON COMMUNICATION AND COOPERATION

Abstract

Spin-based Electronics

Current status, potential and prospect of spin-based electronics are discussed. Emphasis will be placed on (1) the nonvolatility with high speed capability that metal-based spin-electronics devices can bring into the existing semiconductor circuitry and (2) future possibilities of realizing new functionalities using metal- and/or semiconductor-based spin-electronics.

Work supported in part by the IT-Program of RR2002 from MEXT.