

Internal Webinar

Advancements in Spin-Based Electronic Devices: Novel Architectures and Functionalities

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The research investigates features of spin accumulation based junction devices. Novel architectures include metal-semiconductor and metal-insulator junctions, where device response is recorded through junction selective magnetoresistance with magnetic electrodes. Spin injection via magnetic electrodes allows precise control over device characteristics, laying groundwork for advanced spin-based electronics. The study establishes a foundation for future spin-based technologies, offering potential for enhanced functionalities and integration in memory and sensing elements.

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10:30 Hrs

