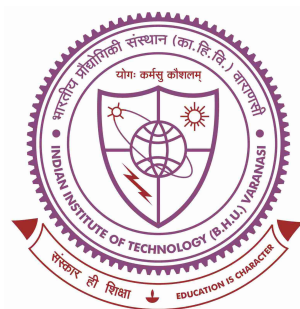


Noncollinear magnetic materials for energy-efficient data storage devices



**Thesis submitted in partial fulfillment
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