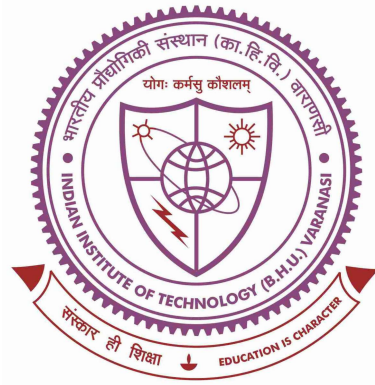


Out-of-time-order correlation in the quantum Ising Floquet spin system and magnonic crystals



**Thesis submitted in partial fulfillment
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