Quantum dynamics of Nitrogen-Vacancy center spin coupled with nonlinear nanomechanical resonator



Thesis submitted in partial fulfillment for the Award of

DOCTOR OF PHILOSOPHY

in

PHYSICS

by
ABHISHEK KUMAR SINGH

Under the supervision of

Dr. Sunil Kumar Mishra

DEPARTMENT OF PHYSICS INDIAN INSTITUTE OF TECHNOLOGY BANARAS HINDU UNIVERSITY VARANASI - 221005

ROLL NUMBER 17171007 YEAR OF SUBMISSION 2022