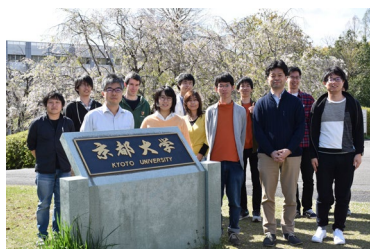


Research Information



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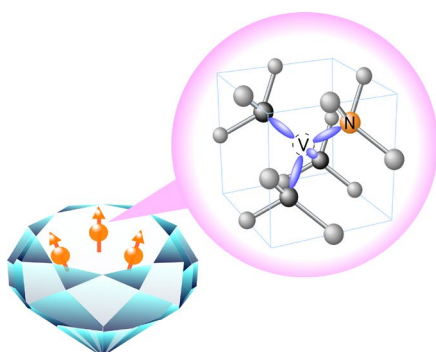
Staff: Assistant Prof. H. MORISHITA, M. FUJIWARA

Staff: Program-Specific Researcher, E. D. Herbschleb,
I. OHKI, Y. Takemura, K. HAYASHI

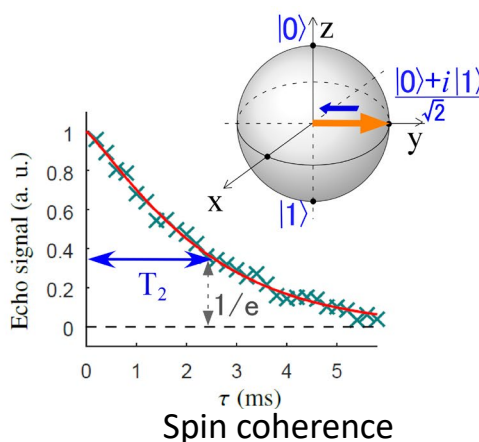
Research Field

Research on a nitrogen-vacancy (NV) center in diamond. The NV center in diamond has excellent properties such as single spin manipulation and readout at room temperature. It has potentials to realize quantum information processing, nano-scale magnetic- and electric-fields quantum sensors.

Research Facility



NV center in diamond



Spin coherence

Research Activities

1) On-going research

Recent paper: “Ultra-long coherence times amongst room-temperature solid-state spins”
E. D. Herbschleb, H. Kato, Y. Maruyama, T. Danjo, T. Makino, S. Yamasaki, I. Ohki,
K. Hayashi, H. Morishita, M. Fujiwara, N. Mizuochi,
Nature Communications, 2019, doi: 10.1038/s41467-019-11776-8.

2) International collaboration: Stuttgart University (Germany), Max Plank Inst. (Germany) ...

Comments

Web site of our laboratory

<http://mizuochilab.kuicr.kyoto-u.ac.jp/indexE.html>

