

Eslam Ahmed, Ph.D.

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🌐 <https://eslam-sabry.github.io/>

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Employment History

2025 – ···· 📖 **Specially Appointed Assistant Professor**, Nagoya University.

Education

- 2022 – 2025 📖 **Doctorate of Engineering, Nagoya University** in Applied Physics.
Thesis title: *Theory of odd frequency pairing as a probe of topological superconductivity and Majorana fermions*
Supervisor: Prof. Yukio Tanaka
- 2020 – 2022 📖 **Master's of Engineering, Nagoya University** in Applied Physics.
Thesis title: *Odd-frequency Pairing in Floquet Topological Superconductors*.
Supervisor: Prof. Yukio Tanaka
- 2003 – 2006 📖 **Bachelor's of Science, Nagoya University** in Physics.
Thesis title: *Gauge/Gravity Duality*.
Supervisor: Prof. Masaharu Tanabashi

Research Publications

Journal Articles

- 1 E. Ahmed, Y. Tanaka, and J. Cayao, "Anomalous proximity effect under andreev and majorana bound states," *Journal of Superconductivity and Novel Magnetism*, vol. 38, no. 5, p. 220, Oct. 2025. 🔗 DOI: 10.1007/s10948-025-07057-9.
- 2 E. Ahmed, S. Tamura, Y. Tanaka, and J. Cayao, "Odd-frequency pairing due to majorana and trivial andreev bound states," *Phys. Rev. B*, vol. 111, p. 224 508, Jun. 2025. 🔗 DOI: 10.1103/fksg-x8pr.
- 3 E. Ahmed, S. Tamura, Y. Tanaka, and J. Cayao, "Odd-frequency superconducting pairing due to multiple majorana edge modes in driven topological superconductors," *Phys. Rev. B*, vol. 111, p. 024 507, Jan. 2025. 🔗 DOI: 10.1103/PhysRevB.111.024507.

Skills

- Languages 📖 Arabic, English, Japanese.
- Coding 📖 Python, Julia
- Misc. 📖 Academic research, teaching, \LaTeX .

References

Available on Request