

Welcome to Ramanuj's World

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Hi there! I'm Ramanuj Raman, a physics enthusiast with a keen interest in every problem of physics I can get my hands on. Currently, I am pursuing my Int-BSMS at the Indian Institute of Science Education and Research (IISER) Mohali. I am in my final year and working on my master's thesis on **Error Budget in Dispersive Readout** at PGI-8 (Institute for Quantum Control), at Forschungszentrum Jülich, Germany, under the supervision of Prof. Dr. Felix Motzoi and Dr. F.A. Cardenas Lopéz.

Before this I have worked on projects related to light-matter interaction including Jaynes-Cum-

nings, Electromagnetically Induced Transparency, simulation of phases of matter in Bose-Hubbard models, understanding topological phenomena in the SSH model and Kitaev chain.

My current interests lie in using techniques from quantum information theory to understand condensed matter systems, and in exploring quantum control methods to improve qubit readout and gate fidelities.

Feel free to explore my notes and blogs to learn more about my work and thoughts!

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