

JOURNAL CLUB DETAILS:

Dr. Bijay Kumar Agarwalla

Group Members: Sushant, Sandipan, Madhumita, Akash, Bhavesh, Moumita,
Pranay

Date	Title of the paper with link	Presenter
12-05-2021	Shortcut-to-adiabaticity quantum Otto refrigerator https://journals.aps.org/prresearch/abstract/10.1103/PhysRevResearch.2.023120	Bijay
19-05-2021	Universal Work fluctuations during Shortcuts to Adiabaticity by Counterdiabatic Driving https://journals.aps.org/prl/cited-by/10.1103/PhysRevLett.118.100602 Experimental Demonstration of work fluctuations along STA with a superconducting XMON qubit https://iopscience.iop.org/article/10.1088/1367-2630/aad4e7	Bijay
26-05-2021	CANCELLED	Sandipan
02-05-2021	Performance of shortcut-to-adiabaticity quantum engines, O. Abah, E. Lutz, PHYSICAL REVIEW E 98, 032121 (2018) https://journals.aps.org/pre/abstract/10.1103/PhysRevE.98.032121	Sandipan
09-05-2021	CANCELLED	Bijay
16-05-2021	Fundamental pathologies in Lindblad descriptions of systems weakly coupled to baths https://arxiv.org/pdf/2105.12091.pdf	Akash
	CANCELLED	
14-09-2021	Thermodynamics of Micro and Nano systems driven by periodic temperature variations PRX 5, 031019 (2015)	Sandipan