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Week 19

130-235 OPEN QUANTUM SYSTEMS AND QUANTUM day THERMODYNAMICS

TAUGHT BY

- · prof. samyadeb bhattacharya
- COURSE TOPICS
- 1. introduction to quantum mechanics and linear algebra
- 2. quantum states, density matrices, and von neumann algebra
- 3. quantum dynamics: from unitary operations to completely positive trace preserving maps.
- 4. Operator sum representation and introduction to basic quantum channels
- 5. quantum dynamical equations: from schrödinger equation to quantum master equations.
- entropy production and laws of thermodynamics.
- application: introduction to quantum heat engines.

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The Friday	Week
Friday FEXT BOOKS	131.2
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