Preliminary schedule of:

Quantum Thermodynamics course (BSc)

Spring 2021

1^{st} locture (11.01.)	Chaptors 1.8.2
	Chapters 1 & 2
	Chapters 3 & 4
3 rd lecture (18.01.)	Chapters 11 & 12
4 th lecture (20.01.)	& 13
5 th lecture (25.01.)	Chapters 14 & 15
6 th lecture (27.01.)	Chapters 16 & 18
Statistical mechanics7th lecture (1.02.)8th lecture (3.02.)	Chapters 19 & 20
	& important parts
	of 22
9th lecture (8.02.)Quantum thermodynamics10th lecture (10.02.)11th lecture (15.02.)	Chapter 29
	Quantum
	statistics and
	electron transport
	Open quantum
	systems I, LC
	circuits and qubit
	Density matrix
	and master
	equation
	Applications:
12 th lecture (17.02.)	thermometers,
	detectors, heat
	engines and
	refrigerators
	4 th lecture (20.01.) 5 th lecture (25.01.) 6 th lecture (27.01.) 7 th lecture (1.02.) 8 th lecture (3.02.) 9 th lecture (8.02.) 10 th lecture (10.02.) 11 th lecture (15.02.)

• NOTE: Chapters refer to Stephen J. Blundell and Katherine M. Blundell, "Concepts in thermal physics", 2nd edition (2019).