

Schedule for FMI (O36) Superconductivity and Low Temperature Physics 2006/2007

Week	Week	Date	Time	Lect.	Room		Contents	Waldram	Tinkham	Read	Teacher
4	1	Tu 2007-01-23	10.00-11.45	1	Kollektorn	SC1	Introduction to SC, demonstration	Ch.1, 2.1-2	Ch.1		PD
		W 2007-01-24	13.15-15.00	2	Fasrummet	SC2	Phenomenology, Thermodynamics	Ch.1, 2.1-2	Ch.1, 5		PD
		Fr 2007-01-26	13.15-15.00	3	Fasrummet	SC3	Electromagnetics of SCs London equations	Ch.2.3-10	Ch.2		PD
5	2	Tu 2007-01-30	15.15-17.00	4	Kollektorn	SC4	GL-theory, SCs in magnetic field	Ch.3, 4	Ch.4		PD
		W 2007-01-31	13.15-15.00	5	Fasrummet	SC5	GL-theory, Vortex, SN interfaces, Ic	Ch.3, 4	Ch.4		PD
		Fr 2007-02-02	13.15-15.00	6	Fasrummet	SC6	Microscopic theory, 2nd quantization, BCS	Ch.7, 8, App. A	Ch.3		PD
6	3	Tu 2007-02-06	15.15-17.00	7	Kollektorn	SC7	BCS, Density of states, BdG equations	Ch.7, 8, App. A	Ch.3		PD
		W 2007-02-07	13.15-15.00	8	Fasrummet	SC8	Josephson effects, Tunneling	Ch.6, Ch.8.8-8.10	Ch.6, 7		PD
		Fr 2007-02-09	13.15-15.00	9	Fasrummet	SD	Superconducting devices, overview	Ch.18			PD
7	4	M 2007-02-12	13.15-17.00	Lab	F4202	Lab1	Josephson effect, Labgroup 1	Ch.6	Ch.6	Lab PM	PM/JJ
		Tu 2007-02-13	15.15-17.00	10	Kollektorn	HTS	High temperature superconductors	Ch.12-16	Ch. 9		DW
		W 2007-02-14	13.15-15.00	11	Fasrummet	Exc1	Exercise, calculations of tunneling integrals	Ch. 8.8	Ch.3.8	Exercise PM	FP
		Th 2007-02-15	08.00-11.45	Lab	F4202	Lab1	Josephson effect, Labgroup 2	Ch.6	Ch.6	Lab PM	PM/JJ
		Fr 2007-02-16	08.00-11.45	Lab	F4202	Lab1	Josephson effect, Labgroup 3	Ch.6	Ch.6	Lab PM	PM/JJ
8	5	M 2007-02-19	13.15-17.00	Lab	F4202	Lab1	Josephson effect, Labgroup 4	Ch.6	Ch.6	Lab PM	PM/JJ
		Tu 2007-02-20	15.15-17.00	12	Kollektorn	4-He 1	Introduction: Review superfl.4He				PD
		W 2007-02-21	13.15-15.00	13	Fasrummet	4-He 2	4He: condensate and excitations, two-fluid model, sound of 2nd order				PD
		Th 2007-02-22	08.00-11.45	Lab	F4202	Lab2	Superfluid Helium, Labgroup 1			Lab PM	JB/MG
		Fr 2007-02-23	08.00-11.45	Lab	F4202	Lab2	Superfluid Helium, Labgroup 2			Lab PM	JB/MG
		Fr 2007-02-23	13.15-15.00	14	Fasrummet	3-He 1	3He: Fermi liquid and superfluidity				PD
9	6	M 2007-03-26	13.15-17.00	Lab	F4202	Lab2	Superfluid Helium, Labgroup 3			Lab PM	JB/MG
		Tu 2007-02-27	08.00-09.45	15	Luftbryggan	Cryo1	Low temperature properties of materials				PD
		W 2007-02-28	13.15-15.00	16	Fasrummet	Exc2	Exercise, calculations of heat leaks				FP
		Th 2007-03-01	08.00-11.45	Lab	F4202	Lab2	Superfluid Helium, Labgroup 4			Lab PM	JB/MG
		Fr 2007-03-02	13.15-15.00	17	Fasrummet	Cryo2	Cooling, principles, liquification				AY
10	7	Tu 2007-03-06	15.15-17.00	18	Kollektorn	Cryo3	Cooling methods T < 1K, Thermometry				PD
		W 2007-03-07	13.15-15.00	19	Fasrummet	Summary	Questions, Exam examples				PD
		Fr 2007-03-09									
11	8					Exam					

PD	Per Delsing	JB/MG	Jonas Bylander/Martin Gustavsson
DW	Dag Winkler	PM/JJ	Per Magnelind/Jesper Johansson
AY	August Yurgens	FP	Fredrik Persson