

Topics for lectures and student presentations (preliminary)

	Topic	Name	Date
1	Introduction to the course	VK	25/09
2	Discovery of the neutron and the positron	VK	27/09
3	Discovery of the muon and the pion	VK	02/10
4	Strangeness	VK	04/10
5	Resonances	VK	09/10
6	Antibaryons: discovery of the antiproton	VK	11/10
7	Antibaryons: discovery of the antineutron	VK	11/10
8	Experimental evidence for neutrino	Group 1	16/10
9	Evidence for two neutrinos	Group 1	16/10
10	Parity violation	Group 1	16/10
11	Kaon system: discovery of the K_L^0	Group 2	18/10
12	Kaon system: CP violation	Group 2	18/10
13	Nucleon structure: ep elastic scattering	VK	23/10
14	Nucleon structure: ep inelastic scattering	VK	25/10
15	Nucleon structure: vp inelastic scattering	VK	25/10
16	Dark matter search (Dark Matter Day)	VK	30/10
17	Discovery of the J/ψ	Group 3	01/11
18	Charmed mesons	Group 3	01/11
19	Tau-leptons	Group 3	01/11
20	The fifth quark: discovery of upilon	Group 4	13/11
21	The fifth quark: B-mesons	Group 4	13/11
22	Quarks, gluons and jets: quark jets	VK	15/11
23	Quarks, gluons and jets: gluon jets	VK	15/11
24	Quarks, gluons and jets: UA2-experiment	VK	20/11
25	Neutral currents	VK	20/11
26	W-bosons	VK	22/11
27	Z-bosons	VK	22/11
28	Neutrino mass and oscillations	Group 5	27/11
29	Solar neutrinos	Group 5	27/11
30	Discovery of the top-quark	VK	29/12
31	Discovery of the tau-neutrino	VK	29/12
32	LEP and LHC experiments	Group 6	04/12

Group 1: Tom Guyah, Sam Shaw, Lewis Perry, Robbie Neal, Toby Severs, Alex Brown

Group 2: Ronan Swift, Josh Berry, Mitch Norfolk, Kate Garner, Rob Foster

Group 3: James Wells, Benjamin Harris, Rosie Elliot, Isaac Pepper, Vatsal Mandalia, Klaudia Wawrowska

Group 4: Chonghao Wu, Rongrong Song, Charles Holligan, Paules Zakhary

Group 5: Alana Matthews, Owen Stone, Rebecca Houghton, Freya Bottom, Bethan Easeman

Group 6: Harrison Thurlow, Varsha Senthilkumar, Callum McEwan, Daniel Barry, Danielle Clarke, Russell Ellis