

PHY466 - 2016

Topics for lectures and student presentations (preliminary)

	Topic	Name	Date
1	Introduction to the course	VK	26/09
2	Discovery of the neutron and the positron	VK	28/09
3	Discovery of the muon and the pion	VK	03/10
4	Strangeness	VK	05/10
5	Resonances	VK	10/10
6	Antibaryons: discovery of the antiproton	VK	12/10
7	Antibaryons: discovery of the antineutron	VK	12/10
8	Experimental evidence for neutrino	Tilbrook/Mcelwee	17/10
9	Evidence for two neutrinos	Pinkney/Cadman	17/10
10	Parity violation	Morgan/O'Kane	19/10
11	Kaon system: discovery of the K_L^0	Pearce/Harding	19/10
12	Kaon system: CP violation	VK	24/10
13	Nucleon structure: ep elastic scattering	VK	26/10
14	Nucleon structure: ep inelastic scattering	VK	26/10
*	Dark matter search (Dark Matter Day)	VK	31/10
15	Nucleon structure: vp inelastic scattering	VK	02/10
16	Discovery of the J/ψ	Gessey/Hall	14/11
17	Charmed mesons	Slingsby/Hodgkinson	14/11
18	Tau-leptons	Sheldon/Godsland	16/11
19	Quarks, gluons and jets: quark jets	VK	16/11
20	Quarks, gluons and jets: gluon jets	VK	21/11
21	Quarks, gluons and jets: UA2-experiment	VK	21/11
22	Neutral currents	VK	23/11
23	Discovery of upsilon and B-mesons	Donaldson/Lennon	28/11
24	W-bosons	VK	28/11
25	Z-bosons	VK	28/11
26	Discovery of the top-quark	VK	30/12
27	Discovery of the tau-neutrino	VK	05/12
28	Neutrino mass and oscillations	VK	05/12
29	Solar neutrinos	Brunswick	07/12
30	W and Z boson studies at LEP	Thompson/Hajheidari	07/12