



**Particle Physics
Master Class (Year 13)
Tuesday 10th March 2009
Programme of activities**



Up to 09:30 Arrive. Coffee & biscuits served outside the Merrison lecture theatre

09:30 - 10.30 Introduction (15 minutes)
Talk: Prof. Fred Loebinger - "Particle physics and the LHC"
High Energy Physics Group, University of Manchester.

Group Activities	LHC & Particle Physics Simulators Simulated LHC & Particle Physics detection runs (science centre)	Magnets, beams and forces Various activities studying magnetic fields and forces on an electron beam (science centre)	ALICE Injector beam experiment An exercise to calculate the electron beam energy in the 'injector' using the prepared worksheets	ALICE 3D Flythrough, Merrison LT Followed by Cockcroft RF Laboratory for demonstrations of RF technology
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10:30 – 11:20	Red	Yellow	Green	Blue
11:20 – 12:10	Yellow	Red	Blue	Green
12.10 – 13.00	Lunch Meeting afterwards at the Merrison lecture theatre			
13.00 – 13.50	Green	Blue	Red	Yellow
13.50 – 14.40	Blue	Green	Yellow	Red
14:40 – 15:30	<ul style="list-style-type: none"> • Quiz • Summary – Review the important points of each event 			
15.30	Close, depart DL			