The Program

1) Symmetries : Space-time & Gauge — 2h

2) Relativistic Equations & States — 3h(-4h)

* 3) H-atom & Positronium — 1h

4) The Quark Model — 2h

5) Detectors of Elementary Particles — 2h

6) Tools for Calculation — 2h-3h

7) $e^+ e^-$ Annihilation — 2h

8) Deep Inelastic Scattering — 2h

9) PDFs — 2h

10) QCD — 2h

11) QCD @ HADRON COLLIDERS (LHC) 2h

12) CHIRAL SYMMETRY 1h

13) CC MODEL OF WEAK INTERACTIONS 2h

14) SPONTANEOUS SYMMETRY BREAKING 2h

15) MASSIVE GAUGE BOSONS W, Z 2h

16) QUARK MIXING (CKM), WEAK DECAYS 2h

17) CP VIOLATION 2h

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18) NEUTRINO MASSES & MIXINGS 2h

19) THE HIGGS BOSON 2h