WEEK 8 : WEAK INTERACTIONS - general characteristics of the weak interaction - Feynman rules and couplings of weak interaction compared to QED. - Chirality Operator and Helicity - Chirality connection (agin !) 4442 Particle Physics - Muon and tau decay Mark Lancaster - Feyman diagrams for tau decays as examples of weak decays Week 8 - Muon lifetime formula - general weak decay width formula - Spin directions / polarisation in pion then muon decay - Ratio of electron and muon decay modes of the pion - Quark vertices in weak interactions : weak flavour vs mass eigenstates http://www.hep.ucl.ac.uk/~markl/teaching/4442 - CKM formalism - GIM mechanism - Decay of B & D mesons and their experimental identification 4442 : Particle Physics (2010) Week 8 : p1 4442 : Particle Physics (2010) Week 8 : p2









