



Lecture Content Approx. lecture content PP intro PP intro. v props 1: strong/e.m./weak, no. neutrino generations v props 2: lepton no., v existence Examples of decay/production Neutrino mass Fermi-Kurie plot Phase space kinematics/4-momentum (handout) Parity and CP violation... (why so important in lepton sector?) Wu et al., 60Co experiment Detection & observation Liquid, solid, bubble chambe "Direct" methods (DONUT) 8. Solar and atmospheric neutrinos Puzzle: relative abundances != SSM prediction Two-flavour neutrino oscillation formalism 9. Neutrino oscillations and mixing Possible solutions to solar/atm. v problems 10. Current and future experiments SK, SNO, KAMLAND, CHOOZ MINOS, miniBOONE, NDBD (NEMO, etc.) JPARC, vF, 11. Implications for cosmology Open vs. closed scenarios. various m_v regions v as DM candidate? Subject outlook (JPARC, MICE, Neutrino Factory, ...)



