

Points from A.Caldwell

1. finish F_L
 - measure structure functions to highest possible x with HERA II data.
 - finish the NC and CC analyses with e^-, e^+ and polarization dependence. Extract EW parameters, limits on RH W , ...
 - measure the total photoproduction cross section at high energies and extract the slope with small uncertainties.
2. extend x range of structure function measurements with lower proton energy runs
 - try to extract the individual contributions from various subprocesses to the photoproduction cross section and see how they vary with CM energy.
 - FI in diffractive events (lower priority because sensitivity will be limited)
 - redo elastic ϕ , J/ψ in HERA II data to make use of higher statistics
 - try again to find the odderon
 - redo contact term analysis with full HERA II data sets. Final limits on LQ, SUSY, etc.
3. extend W range of VM processes with lower energy data to get better energy dependence (only small extension of range possible)