Analysis Timeline and Update

Ryan Zielinski

01/18/2017
Timeline- What I have

• Have asymmetries for all 5T settings which include data from both HRS
  – Transverse settings have out-of-plane correction applied. Also have systematic for this.

• Have radiated polarized cross-sections using model dilution and model XS
  – Use PF values from Toby’s slides for model dilution but can easily switch in real dilution
  – Generate radiated Bosted model for proton for model XS (include inelastic and tail)
  – Use (central) angle fit to data for angle vs. nu in all model calculations

• Have polarized elastic tails for each polarized cross-section
  – Use radlengths I previously calculated

• Have smoothed polarized cross-sections at each setting

• Have all RC codes modified to deal with changing scattering angle
Timeline- To Do

• To Do: 1\textsuperscript{st} pass of inelastic RC using RADCOR for external and internal
  – Hopefully have done by next meeting
  – Can also apply a systematic for internal contribution from POLRAD

• To Do: Inelastic RC using RADCOR and POLRAD
  – 1\textsuperscript{st}/2\textsuperscript{nd} week of February?

• To Do: Systematic study of RC procedure
  – Finish by end of February/early March?
  – Includes elastic tail and inelastic RC
  – A lot should carry over from the saGDH study I already did (kinematics are similar)
  – Hopefully polarized systematics are mostly going to be rolling back assumptions made in
    RADCOR but I still need to look into this

• To Do: Graduate by the end of this summer. Hopefully earlier? June?
  – Have to write up dilution/PF analysis study and then results/conclusion for thesis.
    Everything else is in draft form already.