For each bin in (x, Q2) that is HMS setting in z, phi, and in pt:

- 1)Average Kinematics x, Q2. z. pt. Phi. Mx. W, and elsilon get multiplicity (sighad) and error : with and without radiative Correction + with rho correction
- 2) fit each set of results for a given bin in (x,Q2) and z with the form:

- 3)You can make plots of a0 in sixteen (x,Q2) panels (4\*4 grid) vs z with diff colors for p pi+, p pi-, d pi+, d pi- slightly offset for clarity (along x axis)
- 4) make another 4x4 grid of results for a
- 5) make another 4x4 grid of results for b
- 6)The results for a0/b are the effective fragmentation function, and can be compared with predictions say from DSS. The results for b can be used to compare to the expectaion that they will go a < Pt2> + z\*\*2\* < kt2

To the extent that the four target- Pi+/- cases agree, it shows that the up and down quark widths are the same, and the favored and unfavored fragmentation widths are the same.

- 7)Going futher, we can do a global fit to the b-slope results and get these individually.
- 8)The results for a and b can be compared to various predictions and also data from COMPASS and HERMES.
- 9) I suggest to make one set of plots with no rho subtraction, and one with, and a thrid one with the HEPGEN results (I'll have to help you with that).
- 10)Also, I suggest to make plots of multiplicity versus phi\* for each bin in z, to check that the fit form is working OK
- 11)Also, look at the chi2/d.f. for each one of these fits.
- 12) In my case, I divide the (x,Q2) bins into two using HMS yptar, but for plotting purposes, I take the average. You should have 14 (x,Q2) bins, as the other two are in spring 18.