

Structure of codes:

- Cross_Section.C --- Main program, perform works list above by calling subroutines in the following files in ./SRC/;
- XGT2_Beam.h --- Define BCM constants, check and calculate current, charge, Ni;
- XGT2_Check.h --- Check Data Qualities, only called when bCheck=TRUE;
- XGT2_Cuts.h --- Store PID cuts, trigger cuts and loose acceptance cuts, etc;
- XGT2_Data.h --- Calculate Nf of real data in each bin;
- XGT2_LiveTime.h --- Obtain Prescale Factors, check and calculate live time;
- XGT2_Main.h --- Define headers, variables, constants, classes, and useful subroutines to handle files;
- XGT2_Physics.h --- Calculate Mott XS, Eloss, P0 using magnet fields, check P0 and angle, Not in used;
- XGT2_SAMC.h --- Get info from SAMC rootfiles, such as Nf_Gen_All, Nf_SAMC in each bin, doing corrections;
- XGT2_Target.h --- Define Boiling Effect constants, calculate target density, Ntg;
- XGT2_XEMC.h --- Calculate XS using XEMC model or directly get XS values from look-up tables;
- XGT2_Yield.h --- Calculate Yield
- Makefile, README, input files, etc;