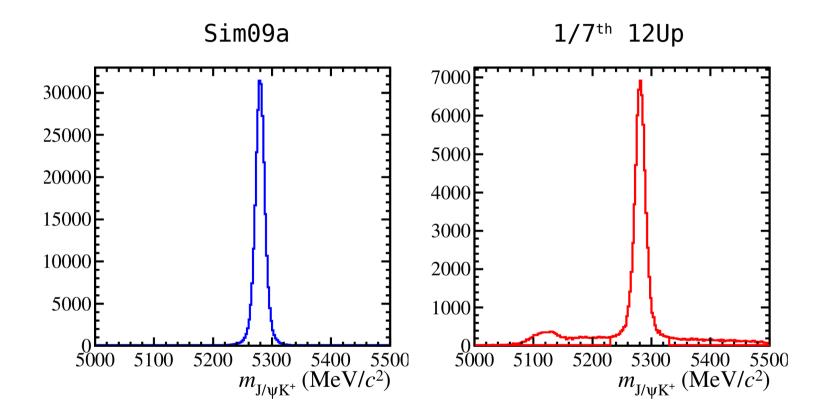
Status at LAPP

May 12th 2020, Annecy/Edinburgh meeting M. Chefdeville, A. Downes, B. Quintana

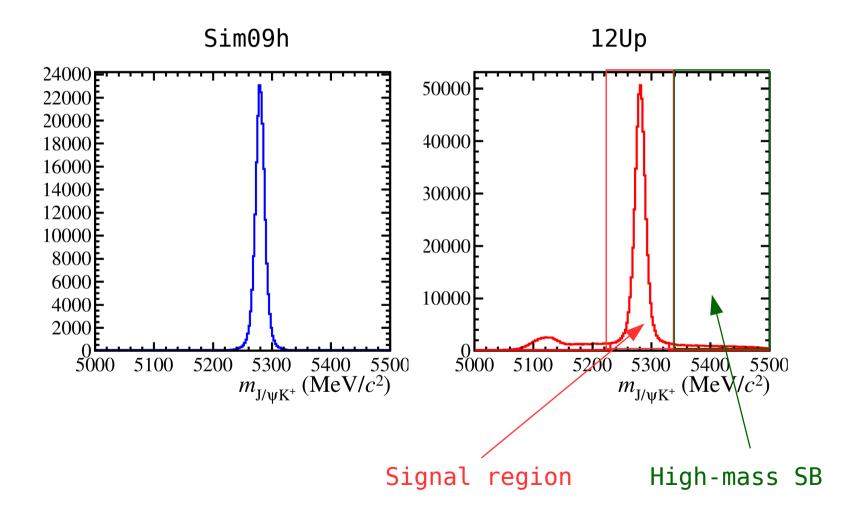
News

- Preparing for a WGP of JpsiEta Ntuples
 - New variables: B cone, pi0 "analog" veto, full-reco-bkg veto
 - New techniques: TMVA with negative weigths, MC weights with nNeutrals
- What's new? Data/MC tests of cone & pi0-veto on JpsiK (Max) and Chic1K (Anthony). Test prod on 2012Up: compare MC-truth, data signal and high-mass sideband regions
 - JpsiK: data s21 VS new Sim09h unstripped MC (LDST+strip.)
 - Chic1K: data s21 VS new Sim09h stripped MC

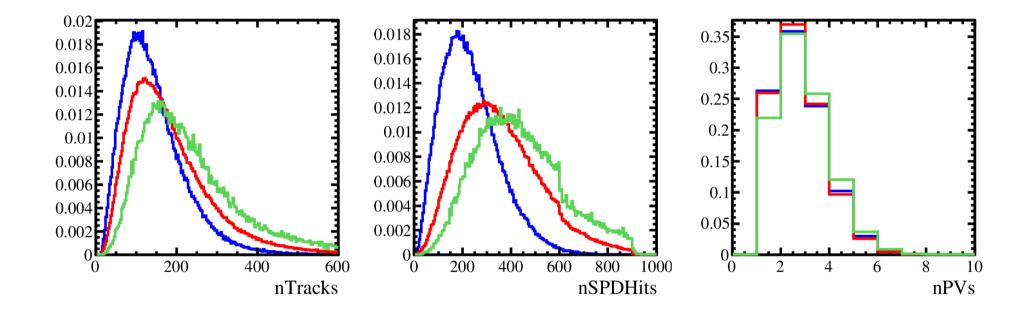
JpsiK (last meeting)



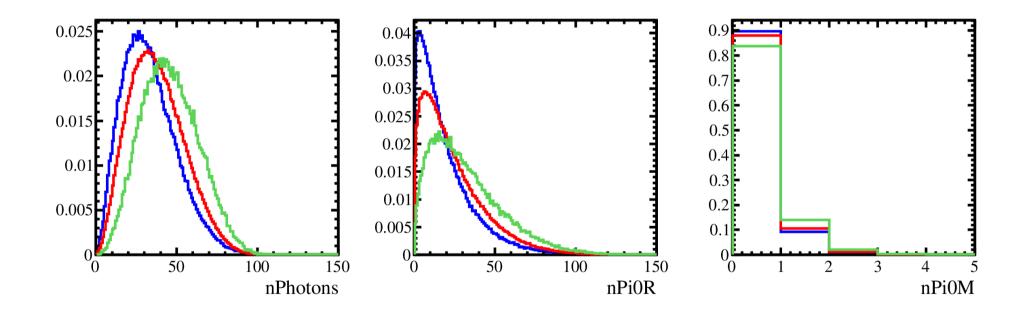
JpsiK



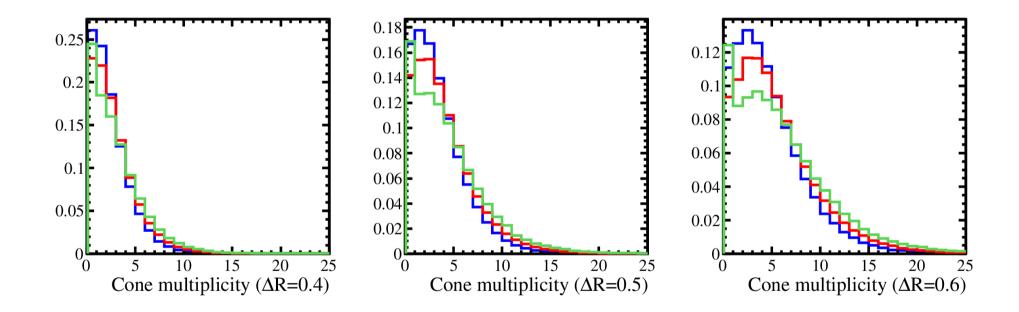
JpsiK, occupancy variables



JpsiK, neutral variables

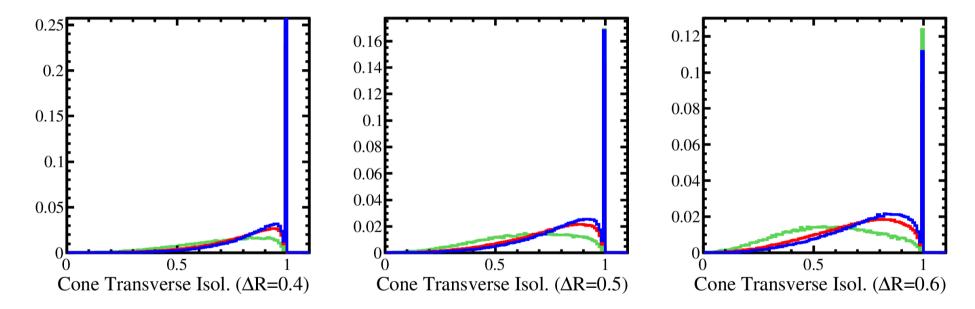


JpsiK, cone multiplicity



JpsiK, cone transverse isolation

- IT more discriminating with larger cones
 - Treat N=0 and N!=0 separately. Also, try DeltaR > 0.6



Outlook

- Cone isolation:
 - Is discriminating
 - Effect of nTrack-resampling should align data/MC signal
- Still to check:
 - pi0-veto modified TupleTool on modes with a pi0 (JpsiKst)
- JpsiEta modes

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- Prepare a WGP of Ntuples
 - \rightarrow finalise list of relevant variables and bkg decay to be veto'ed
 - \rightarrow list of triggers?
- Check our MC Sim versions: can we live with buggy (occupancy Sim09d-e-f) MC?
 Will cone variable in data align in MC after nTracks reweighting?