Update on single electron pt and To-do list for dielectron cocktail

LMee PAG Meeting

İrem Özdemir

March 31th, 2015

Single electron pt's from pizero, eta and omega (crosscheck for Shinichi) I

Settings

```
gener->SetCollisionSystem(AliGenEMlib::kpPb);
gener->SetPtParamPi0(AliGenEMlib::kPichargedParam);
gener->SetV2Systematic(AliGenEMlib::kNoV2Sys);
gener->SetNPart(50000);
gener->SetPtRange(0.,20.);
gener->SetYRange(-1.,1.);
gener->SetPhiRange(0., 360.);
gener->SetOrigin(0.,0.,0.);
gener->SetSigma(0.,0.,0.);
gener->SetTrackingFlag(0);
gener->SetDecayMode(kElectronEM);
gener->SetWeightingMode(kNonAnalog);
```

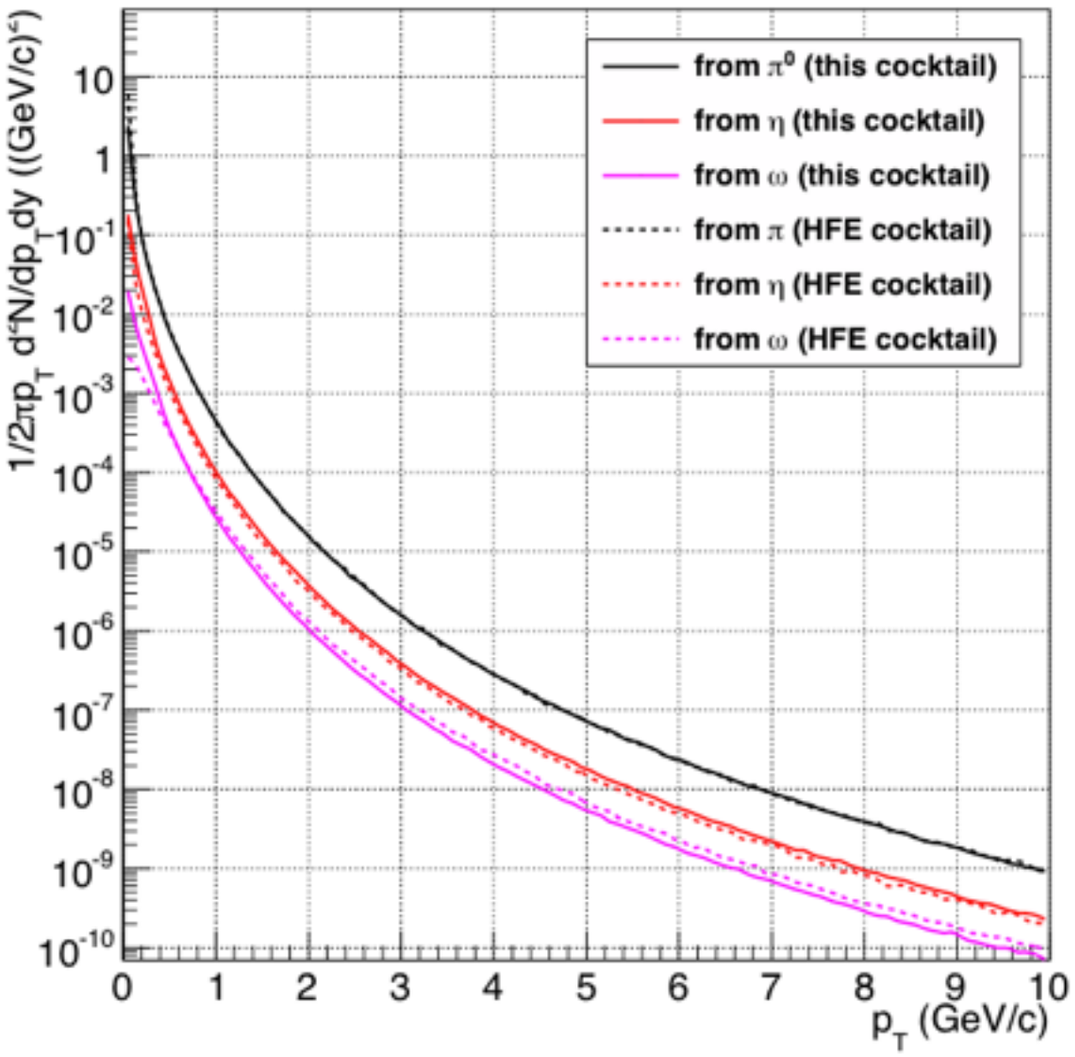
Cocktail inputs

pi0 pt spectra:
Modified Hagedorn exponential fit to charged pions for MB pPb as approximation of pi0 (kPichargedParam)

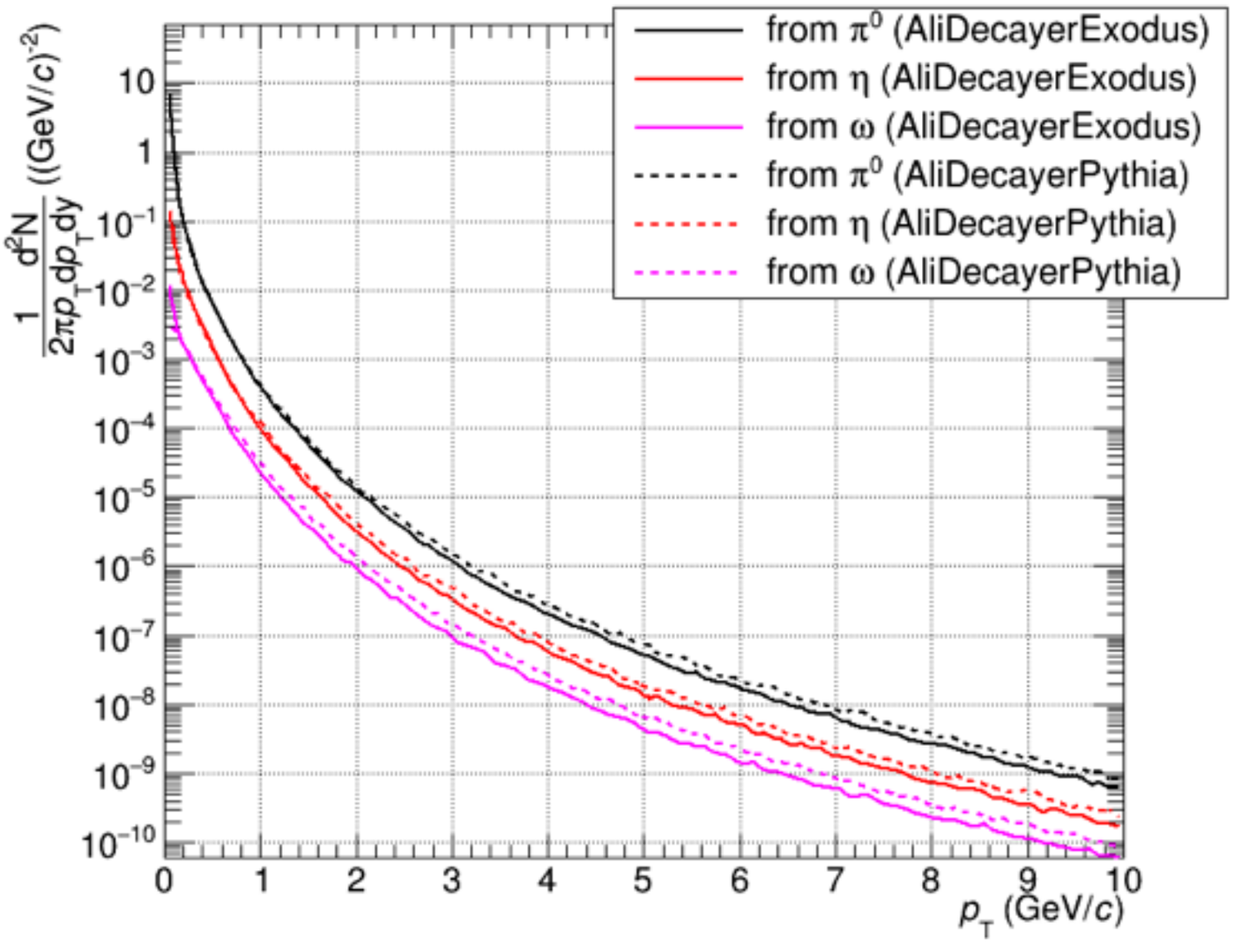
Meson-to-Pion ratios:
eta/pi0 = 0.476
omega/pi0 = 0.85

Single electron pt's from pizero, eta and omega (crosscheck for Shinichi) II

From pPb MB analysis note:



My pPb MB cocktail:



To-do for dielectron cocktail

- ccBar and bbBar contributions with less systematic uncertainties - in particular for ccBar - (*in cooperation with Raphaelle Bailhache*)

- Blast-Wave parametrization for LMR in PbPb collisions (*Carsten Klein*)

- J/Psi generation using PHOTOS+EvtGen
  - parameterizations for several collision systems need to be collected

- Contribution of the Drell-Yan process

Schedule according to the paper plan for pp:

7 weeks may be possible except the Drell-Yan process