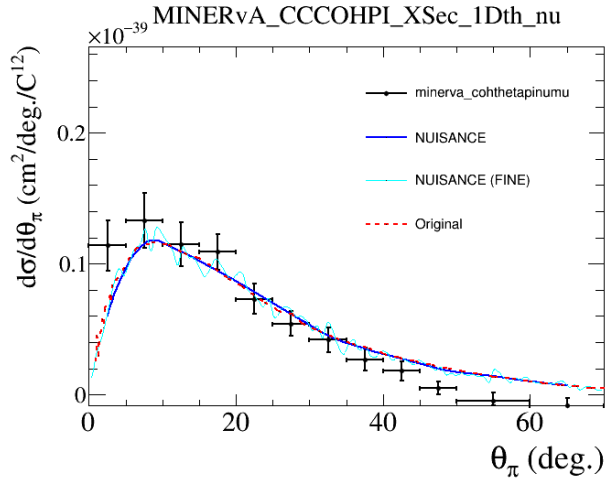


MINERvA_CCCOHPI_XSec_1DEnu_nu_settings

```

• name : MINERvA_CCCOHPI_XSec_1DEnu_nu
• input : GENIE:@GENIE_DIR/gntp.R-2_6_3.OfficialDefault.Default.MINERvA_fhc_numu.CH.2500000.1.prepared
• data : Enu_nu_data.csv
• covar : Enu_nu_cov.csv
• type : DEFAULT
• description :
  |-> MINERvA_CCCOHPI_XSec_1DEnu_nu sample.
  |-> Target: CH
  |-> Flux: MINERvA Forward Horn Current numu
  |-> Signal: Any event with 1 mu-, 1pi+, and no other FS particles
• xtitle : E_ν (GeV)
• ytitle : dσ/dE_ν (cm²/GeV/C¹²)
• default_types : FIX,FREE,SHAPE/DIAG,FULL/NORM/MASK
• allowed_types : FIX/FULL
• enu_min : 1.5
• enu_max : 20
• title : MINERvA_CCCOHPI_XSec_1DEnu_nu
• originalname : MINERvA_CCCOHPI_XSec_1DEnu_nu
• χ² : 15.4619
• NDOF : 9
• χ²/NDOF : 1.71799

```

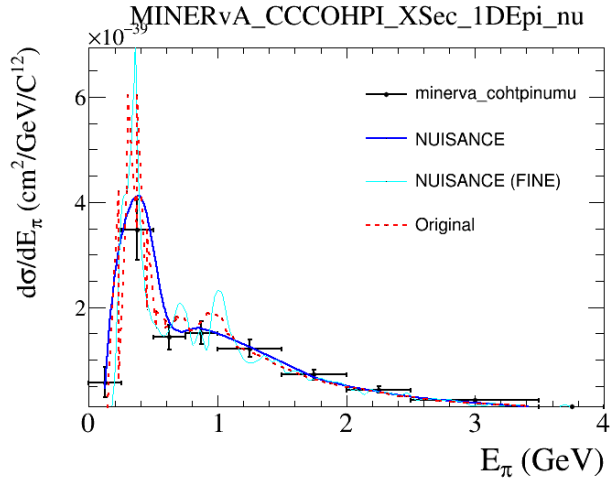


MINERvA_CCCOHPI_XSec_1Dth_nu_settings

```

• name : MINERvA_CCCOHPI_XSec_1Dth_nu
• input : GENIE:@GENIE_DIR/gntp.R-2_6_3.OfficialDefault.Default.MINERvA_fhc_numu.CH.2500000.1.prepared
• data : Thpi_nu_data.csv
• covar : Thpi_nu_cov.csv
• type : DEFAULT
• description :
  |-> MINERvA_CCCOHPI_XSec_1Dth_nu sample.
  |-> Target: CH
  |-> Flux: MINERvA Forward Horn Current numu
  |-> Signal: Any event with 1 mu-, 1pi+, and no other FS particles
• xtitle : θ_π (deg.)
• ytitle : dσ/dθ_π (cm²/deg./C¹²)
• default_types : FIX,FREE,SHAPE/DIAG,FULL/NORM/MASK
• allowed_types : FIX/FULL
• enu_min : 1.5
• enu_max : 20
• title : MINERvA_CCCOHPI_XSec_1Dth_nu
• originalname : MINERvA_CCCOHPI_XSec_1Dth_nu
• χ² : 43.6129
• NDOF : 12
• χ²/NDOF : 3.6344

```

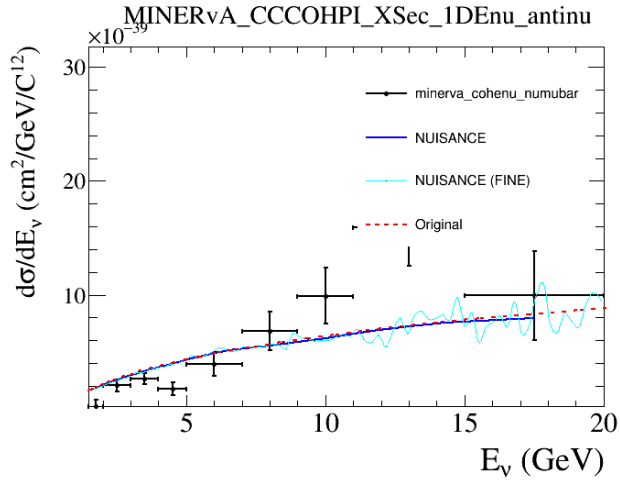


MINERvA_CCCOHPI_XSec_1DEpi_nu_settings

```

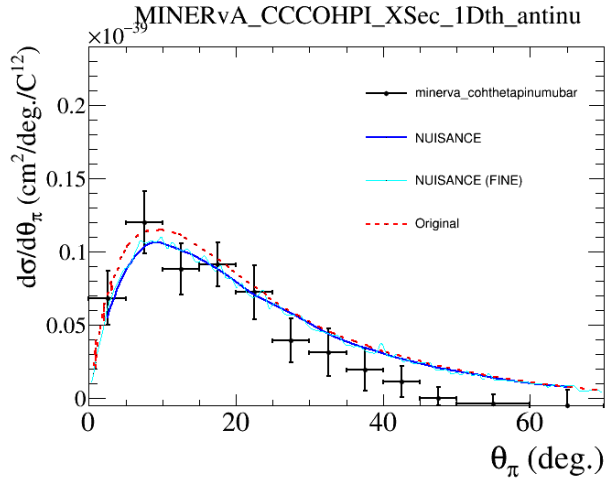
• name : MINERvA_CCCOHPI_XSec_1DEpi_nu
• input : GENIE:@GENIE_DIR/gntp.R-2_6_3.OfficialDefault.Default.MINERvA_fhc_numu.CH.2500000.1.prepared
• data : Epi_nu_data.csv
• covar : Epi_nu_cov.csv
• type : DEFAULT
• description :
  |-> MINERvA_CCCOHPI_XSec_1DEpi_nu sample.
  |-> Target: CH
  |-> Flux: MINERvA Forward Horn Current numu
  |-> Signal: Any event with 1 mu-, 1pi+, and no other FS particles
• xtitle : E_π (GeV)
• ytitle : dσ/dE_π (cm²/GeV/C¹²)
• default_types : FIX,FREE,SHAPE/DIAG,FULL/NORM/MASK
• allowed_types : FIX/FULL
• enu_min : 1.5
• enu_max : 20
• title : MINERvA_CCCOHPI_XSec_1DEpi_nu
• originalname : MINERvA_CCCOHPI_XSec_1DEpi_nu
• χ² : -95.0237
• NDOF : 9
• χ²/NDOF : -10.5582

```



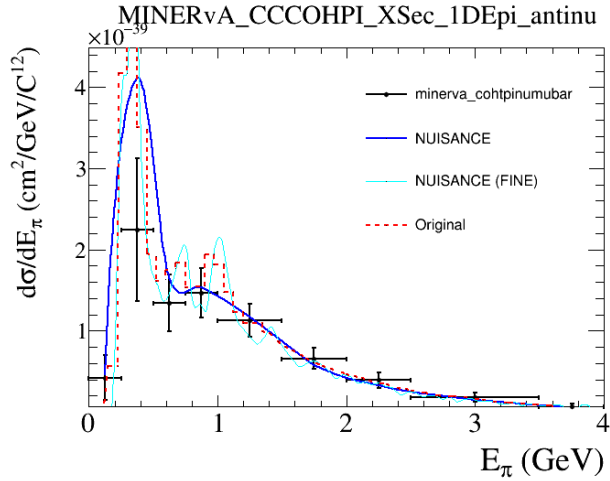
MINERvA_CCCOHPI_XSec_1DEnu_antinu_settings

- **name** : MINERvA_CCCOHPI_XSec_1DEnu_antinu
- **input** : GENIE:@GENIE_DIR/gntp.R-2_6_3.OfficialDefault.Default.MINERvA_rhc_numubar.CH.2500000.2.prepa
- **data** : Enu_nubar_data.csv
- **covar** : Enu_nubar_cov.csv
- **type** : DEFAULT
- **description** :
 ↳ MINERvA_CCCOHPI_XSec_1DEnu_antinu sample.
 ↳ Target: CH
 ↳ Flux: MINERvA Reverse Horn Current numu
 ↳ Signal: Any event with 1 mu+, 1 pi-, and no other FS particles
- **xtitle** : E_ν (GeV)
- **ytitle** : $d\sigma/dE_\nu$ (cm²/GeV/C¹²)
- **default_types** : FIX,FREE,SHAPE/DIAG,FULL/NORM/MASK
- **allowed_types** : FIX/FULL
- **enu_min** : 1.5
- **enu_max** : 20
- **title** : MINERvA_CCCOHPI_XSec_1DEnu_antinu
- **originalname** : MINERvA_CCCOHPI_XSec_1DEnu_antinu
- χ^2 : 39.8795
- **NDOF** : 9
- $\chi^2/NDOF$: 4.43105



MINERvA_CCCOHPI_XSec_1Dth_antinu_settings

- **name** : MINERvA_CCCOHPI_XSec_1Dth_antinu
- **input** : GENIE:@GENIE_DIR/gntp.R-2_6_3.OfficialDefault.Default.MINERvA_rhc_numubar.CH.2500000.2.prepa
- **data** : Thpi_nubar_data.csv
- **covar** : Thpi_nubar_cov.csv
- **type** : DEFAULT
- **description** :
 ↳ MINERvA_CCCOHPI_XSec_1Dth_antinu sample.
 ↳ Target: CH
 ↳ Flux: MINERvA Reverse Horn Current numu
 ↳ Signal: Any event with 1 mu+, 1 pi-, and no other FS particles
- **xtitle** : θ_π (deg.)
- **ytitle** : $d\sigma/d\theta_\pi$ (cm²/deg./C¹²)
- **default_types** : FIX,FREE,SHAPE/DIAG,FULL/NORM/MASK
- **allowed_types** : FIX/FULL
- **enu_min** : 1.5
- **enu_max** : 20
- **title** : MINERvA_CCCOHPI_XSec_1Dth_antinu
- **originalname** : MINERvA_CCCOHPI_XSec_1Dth_antinu
- χ^2 : 19.2385
- **NDOF** : 12
- $\chi^2/NDOF$: 1.60321



MINERvA_CCCOHPI_XSec_1DEpi_antinu_settings

- **name** : MINERvA_CCCOHPI_XSec_1DEpi_antinu
- **input** : GENIE:@GENIE_DIR/gntp.R-2_6_3.OfficialDefault.Default.MINERvA_rhc_numubar.CH.2500000.2.prepa
- **data** : Epi_nubar_data.csv
- **covar** : Epi_nubar_cov.csv
- **type** : DEFAULT
- **description** :
 ↳ MINERvA_CCCOHPI_XSec_1DEpi_antinu sample.
 ↳ Target: CH
 ↳ Flux: MINERvA Reverse Horn Current numu
 ↳ Signal: Any event with 1 mu+, 1 pi-, and no other FS particles
- **xtitle** : E_π (GeV)
- **ytitle** : $d\sigma/dE_\pi$ (cm²/GeV/C¹²)
- **default_types** : FIX,FREE,SHAPE/DIAG,FULL/NORM/MASK
- **allowed_types** : FIX/FULL
- **enu_min** : 1.5
- **enu_max** : 20
- **title** : MINERvA_CCCOHPI_XSec_1DEpi_antinu
- **originalname** : MINERvA_CCCOHPI_XSec_1DEpi_antinu
- χ^2 : 8.19465
- **NDOF** : 9
- $\chi^2/NDOF$: 0.910517