

MINERvA_CCQE_XSec_1DQ2_nu_settings

- name: MINERvA CCOE XSec 1DO2 nu
- input : GENIE:@GENIE_DIR/gntp.R-2_6_3.OfficialDefault.Default.MINERvA_fhc_numu.CH.2500000.1.prepared
- type : DEFAULT description :
- I--> MINERvA_CCQE_XSec_1DQ2_nu sample.
 I--> Target: CH
- |--> Flux: MINERvA Forward Horn Current Numu |--> Signal: True CCQE/2p2h defined at the vertex level

- $\begin{array}{l} \bullet \text{ withe : } Q_{0E}^2 \text{ GeV}^2) \\ \bullet \text{ withe : } Q_{0E}^2 \text{ (cm}^2/\text{GeV}^2) \\ \bullet \text{ default_types : } \text{FIX_FREE_SHAPE/DIAG,FULL/NORM/MASK} \\ \end{array}$
- allowed_types : FIX/FULL

- enu_max: 10
 title: MINERvA_CCQE_XSec_1DQ2_nu
 data: /data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/n
- covar : /data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/ $\bullet \ original name : MINERvA_CCQE_XSec_1DQ2_nu \\$
- χ²: 19.3218
- NDOF: 8
- χ²/NDOF : 2.41522

MINERvA_CCQE_XSec_1DQ2_antinu_settings

- name : MINERVA_CCQE_XSec_1DQ2_antinu input : GENIE:@GENIE_DIR/gntp.R-2_6_3.0fficialDefault.Default.MINERvA_rhc_numubar.CH.2500000.2.prepa
- type : DEFAULT
- description
- |--> MINERvA_CCQE_XSec_1DQ2_antinu sample |--> Target: CH
- |--> Flux: MINERvA Forward Horn Current Numubar
- I--> Signal: True CCQE/2p2h defined at the vertex level

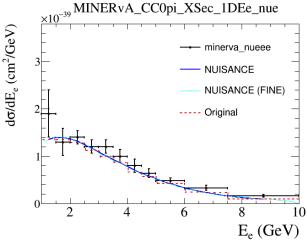
- $\label{eq:controller} \begin{array}{ll} \text{Signal.} & \text{the Cope}_{2E} \text{In clined at the Critical Revolution} \\ \text{• withe} : Q_{0E}^2 \left(\text{GeV}^2\right) \\ \text{• ytithe} : do'/dQ_{0E}^2 \left(\text{cm}^2/\text{GeV}^2\right) \\ \text{• default_types} : \text{FIX,FREE,SHAPE/DIAG,FULL/NORM/MASK} \end{array}$
- allowed_types : FIX/FULL enu_min : 1.5

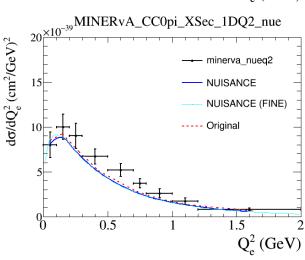
- enu_max : 10 title : MINERvA_CCQE_XSec_1DQ2_antinu
- $\bullet \ data: \ / data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/nulled/nu$
- covar : /data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/
- originalname : MINERvA_CCQE_XSec_1DQ2_antinu
- χ²: 19.9113 • NDOF: 8
- χ²/NDOF : 2.48891

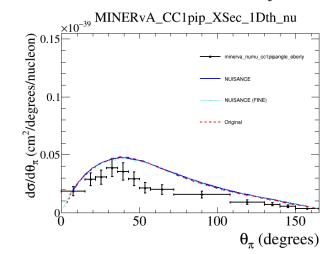
MINERvA_CC0pi_XSec_1DQ2_nu_proton_settings

- name : MINERvA_CC0pi_XSec_1DQ2_nu_proton
 input : GENIE:@GENIE_DIR/gntp.R-2_6_3.0fficialDefault.Default.MINERvA_fhc_numu.CH.2500000.1.prepared
- type : DEFAULT
- description :
- |--> MINERvA_CC0pi_XSec_1DQ2_nu_proton sample
- I--> Target: CH
- |--> Flux: MINERvA Forward Horn Current nue + nueba
- 1--> Signal: Any event with 1 electron, any nucleons, and no other FS particles

- stitle : Q_{QE}^{c} (GeV²) ytitle : $d\sigma/dQ^{2}$ (cm²/GeV²) default_types : FIX_FREE_SHAPE/DIAG,FULL/NORM/MASK
- allowed_types : FIX/FULL
- enu_min : 0
- enu_max : 100
 title : MINERvA_CC0pi_XSec_1DQ2_nu_proton
- data : /data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/n covar : /data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/
- $\bullet \ original name : MINERvA_CC0pi_XSec_1DQ2_nu_proton \\$
- χ²: 7.63844
- NDOF: 7 • $\chi^2/NDOF$: 1.09121







MINERvA_CC0pi_XSec_1DEe_nue_settings

- name: MINERvA_CC0pi_XSec_1DEe_nue
- input : GENIE:@GENIE_DIR/gntp.R-2_6_3.OfficialDefault.Default.MINERvA_fhc_nue.CH.2500000.3.prepared.ru
- type : DEFAULT description :
- |--> MINERvA CC0pi nue Ee sample |--> Target: CH

- I--> Flux: MINERvA Forward Horn Current nue + nuebar
 I--> Signal: Any event with 1 electron, any nucleons, and no other FS particles

- xtitle : E_c (GeV)
 ytitle : do/dE_c (cm²/GeV)
 default_types : FIX_FREE_SHAPE/DIAG_FULL/NORM/MASK
- allowed_types : FIX/FULL
- enu_min : 0
- enu_max : 10 title : MINERvA ν_e CC0π
- data : /data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/n
- covar : /data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/
- $\bullet \ original name : MINERvA_CC0pi_XSec_1DEe_nue \\$
- χ²: 9.5264 • NDOF: 11
- χ²/NDOF : 0.866036

MINERvA_CC0pi_XSec_1DQ2_nue_settings

- name : MINERvA_CC0pi_XSec_1DQ2_nue
 input : GENIE:@GENIE_DIR/gntp.R-2_6_3.0fficialDefault.Default.MINERvA_fhc_nue.CH.2500000.3.prepared.ru
- type : DEFAULT
- description
- |--> MINERvA_CC0pi_XSec_1DQ2_nue sample |--> Target: CH
- |--> Flux: MINERvA Forward Horn Current nue + nuebar
- 1--> Signal: Any event with 1 electron, any nucleons, and no other FS particles

- stitle : $Q_e^2(\text{GeV})$ ytitle : $d\sigma/dQ_e^2(\text{cm}^2/\text{GeV})^2$ default_types : FIX,FREE,SHAPE/DIAG,FULL/NORM/MASK
- allowed_types : FIX/FULL enu_min : 0

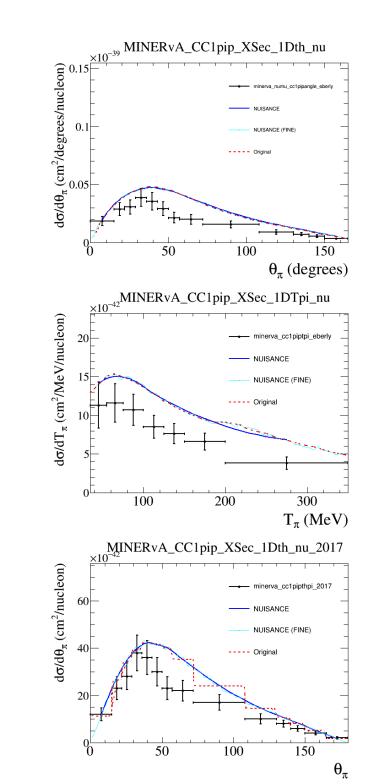
- enu_max : 10 title : MINERvA_CC0pi_XSec_1DQ2_nue
- $\bullet \ data: \ / data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/nulled/nu$
- covar : /data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/
- originalname : MINERvA_CC0pi_XSec_1DQ2_nue
- χ²: 9.9699 • NDOF : 9
- γ²/NDOF : 1.10777

MINERvA_CC1pip_XSec_1Dth_nu_settings

- name : MINERvA_CC1pip_XSec_1Dth_nu
 input : GENIE:@GENIE_DIR/gntp.R-2_6_3.0fficialDefault.Default.MINERvA_fhc_numu.CH.2500000.1.prepared
- type : DEFAULT description
- |--> MINERvA_CC1pip_XSec_1Dth_nu sample
- I--> Target: CH
- |--> Flux: MINERvA Forward Horn Current nue + nuebar
- 1--> Signal: Any event with 1 electron, any nucleons, and no other FS particles
- xtitle : θ_{π} (degrees)
- $\label{eq:theta-state} \begin{array}{l} \bullet \mbox{ ytitle : } d\sigma \! / d\theta_\pi \mbox{ (cm}^2 \! / \! degrees \! / \! nucleon) \\ \bullet \mbox{ default_types : FIX,FREE,SHAPE/DIAG,FULL/NORM/MASK} \end{array}$
- allowed_types : FIX/FULL enu_min : 1.5

- enu_max : 10 title : MINERvA_CC1pip_XSec_1Dth_nu
- $\bullet \ data: \ / data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/nulled/nu$ covar : /data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/

- NDOF: 13
- χ²/NDOF : 8.04719



MINERvA_CC1pip_XSec_1Dth_nu_settings

- name : MINERvA_CClpip_XSec_IDth_nu
 input : GENIE:@GENIE_DIR/gntp.R-2_6_3.0fficialDefault.Default.MINERvA_fhc_numu.CH.2500000.1.prepared
- type : DEFAULT description :
- I--> MINERvA_CC1pip_XSec_1Dth_nu sample
 I--> Target: CH

- I--> Flux: MINERvA Forward Horn Current nue + nuebar
 I--> Signal: Any event with 1 electron, any nucleons, and no other FS particles

- xtitle : θ_{π} (degrees) ytitle : θ_{π} (degrees) ytitle : $d\sigma/d\theta_{\pi}$ (cm²/degrees/nucleon) default_types : FIX_FREE_SHAPE/DIAG,FULL/NORM/MASK
- allowed_types : FIX/FULL

- enm_max: 10
 title: MINERvA_CCIpip_XSec_IDth_nu
 data: /data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/n
- covar : /data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/
- $\bullet \ original name : MINERvA_CC1pip_XSec_1Dth_nu \\$
- NDOF: 13
- χ²/NDOF : 8.04719

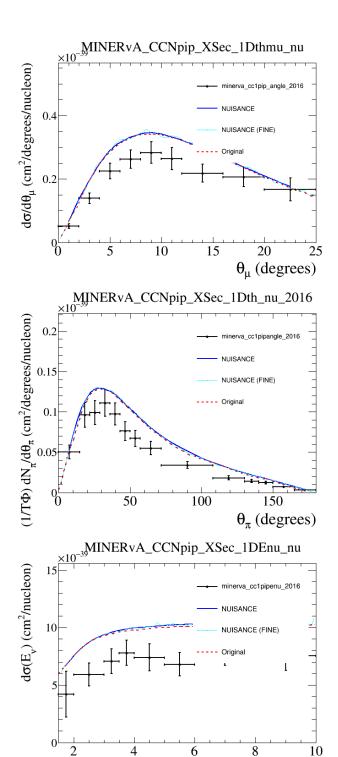
MINERvA_CC1pip_XSec_1DTpi_nu_settings

- name : MINERvA_CC1pip_XSec_1DTpi_nu
 input : GENIE:@GENIE_DIR/gntp.R-2_6_3.0fficialDefault.Default.MINERvA_fhc_numu.CH.2500000.1.prepared
- type : DEFAULT
- description
- |--> MINERvA_CC1pip_XSec_1DTpi_nu sample |--> Target: CH
- |--> Flux: MINERvA Forward Horn Current nue + nuebar
- 1--> Signal: Any event with 1 electron, any nucleons, and no other FS particles
- xtitle : T_{π} (MeV)
- $\label{eq:potential} \begin{array}{l} \bullet \mbox{ ytitle : } d\sigma / dT_{\pi} \mbox{ (cm}^2 / MeV / nucleon) \\ \bullet \mbox{ default_types : FIX,FREE,SHAPE/DIAG,FULL/NORM/MASK} \end{array}$
- allowed_types : FIX/FULL enu_min : 1.5

- enu_max : 10 title : MINERvA_CC1pip_XSec_1DTpi_nu
- $\bullet \ data: \ / data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/nulled/nu$
- covar : /data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/
- originalname : MINERvA_CC1pip_XSec_1DTpi_nu
- χ²: 22.0665
- NDOF: 7
- γ²/NDOF : 3.15236

MINERvA_CC1pip_XSec_1Dth_nu_2017_settings

- name: MINERvA_CC1pip_XSec_1Dth_nu_2017
 input: GENIE:@GENIE_DIR/gntp.R-2_6_3.OfficialDefault.Default.MINERvA_fhc_numu.CH.2500000.1.prepared
- $\bullet \ default_types: {\tt FIX,FREE,SHAPE/DIAG,FULL/NORM/MASK}$
- allowed_types : FIX/FULL
- enu_min : 1.5
- enu_max : 10 description :
- I--> Target: CH
- |--> Flux: MINERvA Forward Horn Current numu ONLY
- 1--> Signal: Any event with 1 muon, and 1pi+ or 1pi- in FS. W < 1.4
- data : /data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/n
- $\bullet \ covar: / data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/minerva-validation-0$
- title : CC1π Updated
- $\bullet \ xtitle: \theta_{\pi}$
- ytitle : dσ/dθ_π (cm²/nucleon)
- originalname : MINERvA_CC1pip_XSec_1Dth_nu_2017
- χ^2 : 82.9066
- NDOF: 14
- $\chi^2/NDOF$: 5.9219



MINERvA_CCNpip_XSec_1Dthmu_nu_settings

- name: MINERvA_CCNpip_XSec_1Dthmu_nu
- input : GENIE:@GENIE_DIR/gntp.R-2_6_3.OfficialDefault.Default.MINERvA_fhc_numu.CH.2500000.1.prepared
- type : DEFAULT description :

- |--> MINERvA_CCNpip_XSec_1Dthmu_nu sample |--> Target: CH
- I--> Flux: MINERvA Forward Horn Current nue + nuebar
 I--> Signal: Any event with 1 electron, any nucleons, and no other FS particles

- xtitle : θ_{μ} (degrees) ytitle : $d\sigma/d\theta_{\mu}$ (cm²/degrees/nucleon) default_types : FIX_FREE_SHAPE/DIAG,FULL/NORM/MASK
- allowed_types : FIX/FULL

- enm_max: 10
 title: MINERvA_CCNpip_XSec_IDthmu_nu
 data: /data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/n
- covar : /data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/
- $\bullet \ original name : MINERvA_CCNpip_XSec_1Dthmu_nu \\$
- χ²: 20.3228
- NDOF: 9
- χ²/NDOF : 2.25809

MINERvA_CCNpip_XSec_1Dth_nu_2016_settings

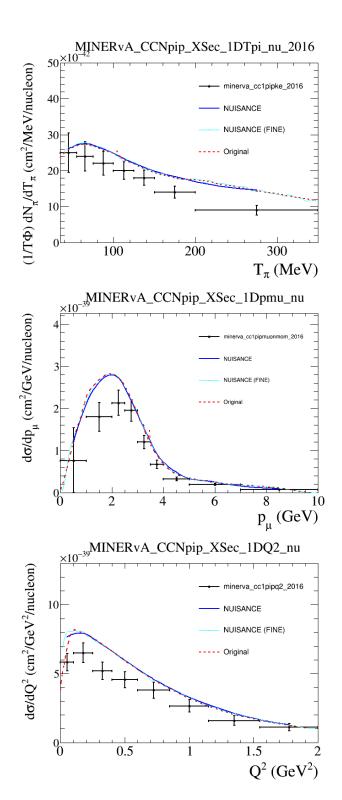
- name : MINERvA_CCNpip_XSec_1Dth_nu_2016
- $\bullet \ input: GENIE: @GENIE_DIR/gntp.R-2_6_3. Official Default. Default. MINERvA_fhc_numu. CH. 2500000. 1. prepared the property of the propert$
- type : DEFAULT
- description
- |--> MINERvA_CCNpip_XSec_1Dth_nu sample.
- I--> Target: CH
- |--> Flux: MINERvA Forward Horn Current nue + nuebar
- 1--> Signal: Any event with 1 electron, any nucleons, and no other FS particles
- xtitle : θ_{π} (degrees)
- ytitle : $(1/T\Phi) dN_{\pi}/d\theta_{\pi} (cm^2/degrees/nucleon)$
- $\bullet \ default_types: FIX,FREE,SHAPE/DIAG,FULL/NORM/MASK$
- allowed_types : FIX/FULL
- enu min: 1.5
- enu_max : 10
- title : MINERvA_CCNpip_XSec_1Dth_nu
- $\bullet \ original name : MINERvA_CCNpip_XSec_1Dth_nu_2016 \\$
- χ^2 : 56.9773 • NDOF : 14
- $\chi^2/NDOF$: 4.06981

MINERvA_CCNpip_XSec_1DEnu_nu_settings

- name : MINERvA_CCNpip_XSec_1DEnu_nu
 input : GENIE:@GENIE_DIR/gntp.R-2_6_3.0fficialDefault.Default.MINERvA_fhc_numu.CH.2500000.1.prepared
- $\bullet \ type : DEFAULT \\$
- description
- |--> MINERvA_CCNpip_XSec_1DEnu_nu sample |--> Target: CH
- |--> Flux: MINERvA Forward Horn Current nue + nuebar
- 1--> Signal: Any event with 1 electron, any nucleons, and no other FS particles
- $\bullet \ \textbf{xtitle} : E_v \ (GeV)$
- $\label{eq:sigma-def} \begin{array}{l} \bullet \mbox{ withe : } d\sigma(E_{_{V}}) \mbox{ (cm}^{2}/\mbox{nucleon)} \\ \bullet \mbox{ default_types : FIX,FREE,SHAPE/DIAG,FULL/NORM/MASK} \end{array}$
- allowed_types : FIX/FULL enu_min : 1.5

- enu_max : 10 title : MINERvA_CCNpip_XSec_1DEnu_nu
- $\bullet \ data: \ / data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/nulled/nu$ covar : /data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/
- originalname : MINERvA_CCNpip_XSec_1DEnu_nu
- NDOF: 8
- χ²/NDOF : 2.38766

 E_{v} (GeV)



MINERvA_CCNpip_XSec_1DTpi_nu_2016_settings

- name : MINERvA_CCNpip_XSec_1DTpi_nu_2016
- $\bullet \ input: GENIE: @GENIE_DIR/gntp.R-2_6_3. Official Default. Default. MINERvA_fhc_numu. CH. 2500000.1. prepared the property of the property$
- type : DEFAULT
- description
- |--> MINERvA_CCNpip_XSec_1DTpi_nu sample
- I--> Target: CH
- |--> Flux: MINERvA Forward Horn Current nue + nuebar
- I--> Signal: Any event with I electron, any nucleons, and no other FS particles
- xtitle : T_{π} (MeV)
- ytitle : $(1/T\Phi) dN_{\pi}/dT_{\pi} (cm^2/MeV/nucleon)$
- default_types : FIX,FREE,SHAPE/DIAG,FULL/NORM/MASK
- allowed_types : FIX/FULL
- enu_min: 1.5
- enu_max : 10
- $\bullet \ title : MINERvA_CCNpip_XSec_1DTpi_nu \\$
- $\bullet \ original name : MINERvA_CCNpip_XSec_1DTpi_nu_2016 \\$
- χ^2 : 25.081 • NDOF : 7
- $\chi^2/NDOF : 3.583$

MINERvA_CCNpip_XSec_1Dpmu_nu_settings

- name : MINERvA_CCNpip_XSec_1Dpmu_nu
 input : GENIE:@GENIE_DIR/gntp.R-2_6_3.0fficialDefault.Default.MINERvA_fhc_numu.CH.2500000.1.prepared
- type : DEFAULT
- description :
- |--> MINERvA_CCNpip_XSec_1Dpmu_nu sample |--> Target: CH
- |--> Flux: MINERvA Forward Horn Current nue + nuebar
- 1--> Signal: Any event with 1 electron, any nucleons, and no other FS particles

- stitle : p_{μ} (GeV)
 ytitle : $d\sigma/dp_{\mu}$ (cm²/GeV/nucleon)
 default_types : FIX,FREE,SHAPE/DIAG,FULL/NORM/MASK
- allowed_types : FIX/FULL enu_min : 1.5

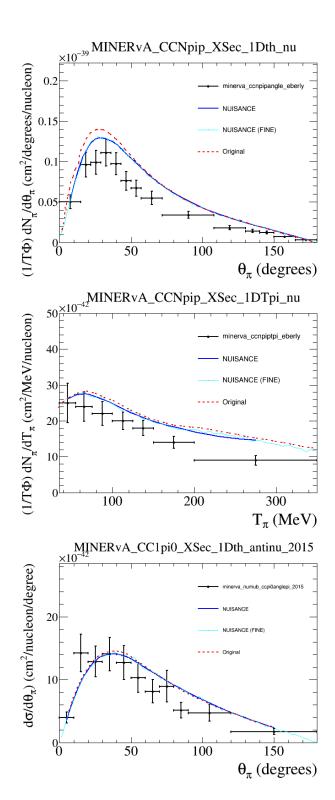
- enu_max: 10
 title: MINERvA_CCNpip_XSec_IDpmu_nu
 data: /data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/n
 data: /data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/n
- covar : /data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/
- originalname : MINERvA_CCNpip_XSec_1Dpmu_nu
- χ²: 35.7957 • NDOF: 9
- γ²/NDOF : 3.97731

MINERvA_CCNpip_XSec_1DQ2_nu_settings

- name : MINERvA_CCNpip_XSec_1DQ2_nu
 input : GENIE:@GENIE_DIR/gntp.R-2_6_3.0fficialDefault.Default.MINERvA_fhc_numu.CH.2500000.1.prepared
- type : DEFAULT
- description :
- |--> MINERvA_CCNpip_XSec_1DQ2_nu sample |--> Target: CH
- |--> Flux: MINERvA Forward Horn Current nue + nuebar
- 1--> Signal: Any event with 1 electron, any nucleons, and no other FS particles

- xtitle : Q² (GeV²)
 ytitle : do/dQ² (cm²/GeV²/nucleon)
 default_types : FIX,FREE,SHAPE/DIAG,FULL/NORM/MASK
- allowed_types : FIX/FULL enu_min : 1.5

- enu_max : 10 title : MINERvA_CCNpip_XSec_1DQ2_nu
- data : /data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/n
- covar : /data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/ $\bullet \ original name : MINERvA_CCNpip_XSec_1DQ2_nu \\$
- NDOF: 8
- χ²/NDOF : 1.94227



MINERvA_CCNpip_XSec_1Dth_nu_settings

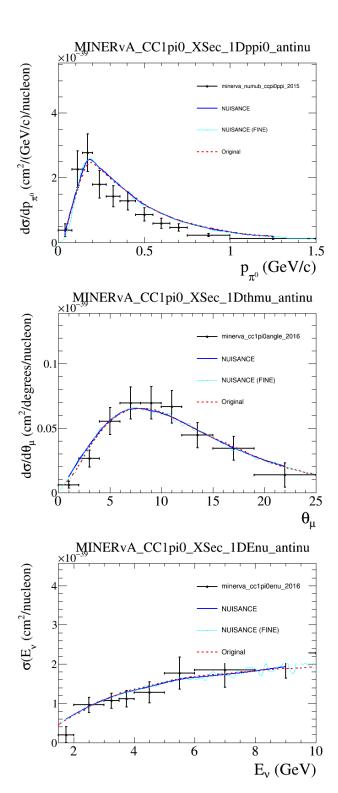
- name : MINERvA_CCNpip_XSec_1Dth_nu
- $\bullet input: GENIE: @GENIE_DIR/gntp.R-2_6_3. Official Default. Default. MINERvA_fhc_numu. CH. 2500000.1. prepared the property of the property$
- type : DEFAULT
- description
- |--> MINERvA_CCNpip_XSec_1Dth_nu sample.
- I--> Target: CH
- |--> Flux: MINERvA Forward Horn Current nue + nuebar
- 1--> Signal: Any event with 1 electron, any nucleons, and no other FS particles
- xtitle : θ_{π} (degrees)
- ytitle : $(1/T\Phi) dN_{\pi}/d\theta_{\pi} (cm^2/degrees/nucleon)$
- default_types : FIX,FREE,SHAPE/DIAG,FULL/NORM/MASK
- $\bullet \ allowed_types: FIX/FULL \\$
- enu_min: 1.5
- enu_max : 10
- $\bullet \ title: \\ MINERvA_CCNpip_XSec_1Dth_nu \\$
- originalname : MINERvA_CCNpip_XSec_1Dth_nu
- χ^2 : 56.9773 • NDOF : 14
- $\chi^2/NDOF$: 4.06981

MINERvA_CCNpip_XSec_1DTpi_nu_settings

- name : MINERvA_CCNpip_XSec_1DTpi_nu
- $\bullet \ input: GENIE: @GENIE_DIR/gntp.R-2_6_3. Official Default. Default. MINERvA_fhc_numu. CH. 2500000. 1. prepared the property of the propert$
- type : DEFAULT
- description
- |--> MINERvA_CCNpip_XSec_1DTpi_nu sample.
- I--> Target: CH
- |--> Flux: MINERvA Forward Horn Current nue + nuebar
- 1--> Signal: Any event with 1 electron, any nucleons, and no other FS particles
- xtitle : T_{π} (MeV)
- ytitle : $(1/T\Phi) dN_{\pi}/dT_{\pi} (cm^2/MeV/nucleon)$
- $\bullet \ default_types: FIX,FREE,SHAPE/DIAG,FULL/NORM/MASK$
- $\bullet \ allowed_types: FIX/FULL \\$
- enu_min : 1.5
- enu_max : 10
- $\bullet \ title : MINERvA_CCNpip_XSec_1DTpi_nu \\$
- originalname : MINERvA_CCNpip_XSec_1DTpi_nu
- χ^2 : 25.081
- NDOF : 7
- $\chi^2/NDOF : 3.583$

MINERvA_CC1pi0_XSec_1Dth_antinu_2015_settings

- name: MINERvA_CC1pi0_XSec_1Dth_antinu_2015
- $\bullet \ input: GENIE: @GENIE_DIR/gntp.R-2_6_3. Official Default. Default. MINERvA_rhc_numubar. CH. 2500000. 2. prepared to the property of the p$
- type : DEFAULT
- description
- |--> MINERvA_CC1pi0_XSec_1Dth_antinu sample.
- I--> Target: CH
- |--> Flux: MINERvA Forward Horn Current numubar
- I--> Signal: Any event with 1 muon, 1 pion, no other tracks
- xtitle : θ_π (degrees)
- ytitle : $d\sigma/d\theta_{\pi}$) (cm²/nucleon/degree)
- $\bullet \ default_types: FIX,FREE,SHAPE/DIAG,FULL/NORM/MASK$
- $\bullet \ allowed_types: FIX/FULL \\$
- enu min: 1.5
- enu_max : 10
- title : MINERvA_CC1pi0_XSec_1Dth_antinu
- originalname : MINERvA_CC1pi0_XSec_1Dth_antinu_2015
- χ²: 17.2829
- NDOF : 11
- χ²/NDOF : 1.57117



MINERvA_CC1pi0_XSec_1Dppi0_antinu_settings

- name : MINERvA_CC1pi0_XSec_1Dppi0_antinu
- $\bullet \ input: GENIE: @GENIE_DIR/gntp.R-2_6_3. Official Default. Default. MINERvA_rhc_numubar. CH. 2500000. 2. preparation of the property of th$
- type : DEFAULT
- description
- |--> MINERvA_CC1pi0_XSec_1Dppi0_antinu sample.
- I--> Target: CH
- |--> Flux: MINERvA Forward Horn Current numubar
- |--> Signal: Any event with 1 muon, 1 pion, no other tracks

- -> Signai: Any event with 1 muon, 1 pion, no other tracks

 * xtitle: p_{et} (GeV/c)

 * ytitle: do/dp_{et} (cm²/(GeV/c)/nucleon)

 * default_types: FIX,FREE,SHAPE/DIAG/NORM/MASK

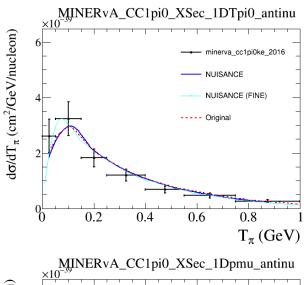
 * allowed_types: FIX/DIAG
- enu_min: 1.5
- enu_max : 10
- title : MINERvA_CC1pi0_XSec_1Dppi0_antinu
- $\bullet \ original name : MINERvA_CC1pi0_XSec_1Dppi0_antinu \\$
- χ^2 : 41.0959 • NDOF : 11
- χ²/NDOF : 3.73599

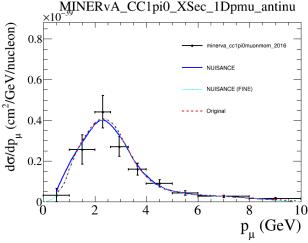
MINERvA_CC1pi0_XSec_1Dthmu_antinu_settings

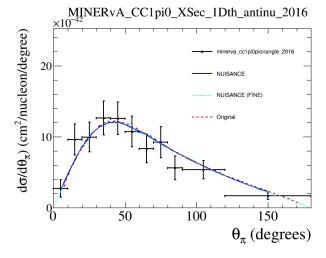
- name : MINERvA_CC1pi0_XSec_1Dthmu_antinu
- $\bullet \ input: GENIE: @GENIE_DIR/gntp.R-2_6_3. Official Default. Default. MINERvA_rhc_numubar. CH. 2500000.2. preparation of the property of the$
- type : DEFAULT
- description
- |--> MINERvA_CC1pi0_XSec_1Dthmu_antinu sample.
- I--> Target: CH
- |--> Flux: MINERvA Forward Horn Current numubar
- I--> Signal: Any event with 1 muon, 1 pion, no other tracks
- ytitle : $d\sigma/d\theta_{\mu}$ (cm²/degrees/nucleon)
- $\bullet \ default_types: FIX, FREE, SHAPE/DIAG/NORM/MASK$
- $\bullet \ allowed_types: FIX/DIAG$
- enu_min : 1.5
- enu_max : 10
- title : MINERvA_CC1pi0_XSec_1Dthmu_antinu
- originalname : MINERvA_CC1pi0_XSec_1Dthmu_antinu
- χ² : 10.5358 **NDOF** : 9
- $\chi^2/NDOF$: 1.17064

MINERvA_CC1pi0_XSec_1DEnu_antinu_settings

- name: MINERvA_CC1pi0_XSec_1DEnu_antinu
- $\bullet \ input: GENIE: @GENIE_DIR/gntp.R-2_6_3. Official Default. Default. MINERvA_rhc_numubar. CH. 2500000. 2. prepared to the property of the p$
- type : DEFAULT
- description
- |--> MINERvA_CC1pi0_XSec_1DEnu_antinu sample.
- I--> Target: CH
- |--> Flux: MINERvA Forward Horn Current numubar
- I--> Signal: Any event with 1 muon, 1 pion, no other tracks
- $\bullet \ \textbf{xtitle} : E_{_{V}}\left(GeV\right)$
- ytitle : $\sigma(E_v (cm^2/nucleon)$
- $\bullet \ \mathbf{default_types} : FIX, FREE, SHAPE/DIAG/NORM/MASK$
- $\bullet \ allowed_types: FIX/DIAG$ • enu min: 1.5
- enu_max : 10
- title : MINERvA_CC1pi0_XSec_1DEnu_antinu
- originalname : MINERvA_CC1pi0_XSec_1DEnu_antinu
- χ² : 6.15226 NDOF : 8
- χ²/NDOF : 0.769033







MINERvA_CC1pi0_XSec_1DTpi0_antinu_settings

- name : MINERvA_CC1pi0_XSec_1DTpi0_antinu
- $\bullet \ input: GENIE: @GENIE_DIR/gntp.R-2_6_3. Official Default. Default. MINERvA_rhc_numubar. CH. 2500000. 2. preparation of the property of th$
- type : DEFAULT
- description
- |--> MINERvA_CC1pi0_XSec_1DTpi0_antinu sample.
- I--> Target: CH
- |--> Flux: MINERvA Forward Horn Current numubar
- |--> Signal: Any event with 1 muon, 1 pion, no other tracks
- xtitle : T_{π} (GeV)
- ytitle : $d\sigma/dT_{\pi}$ (cm²/GeV/nucleon)
- default_types: FIX,FREE,SHAPE/DIAG,FULL/NORM/MASK
 allowed_types: FIX/FULL
- enu_min: 1.5
- enu_max : 10
- $\bullet \ title : MINERvA_CC1pi0_XSec_1DTpi0_antinu \\$
- $\bullet \ original name : MINERvA_CC1pi0_XSec_1DTpi0_antinu \\$
- χ^2 : 10.5678 • NDOF : 7
- $\chi^2/NDOF$: 1.50969

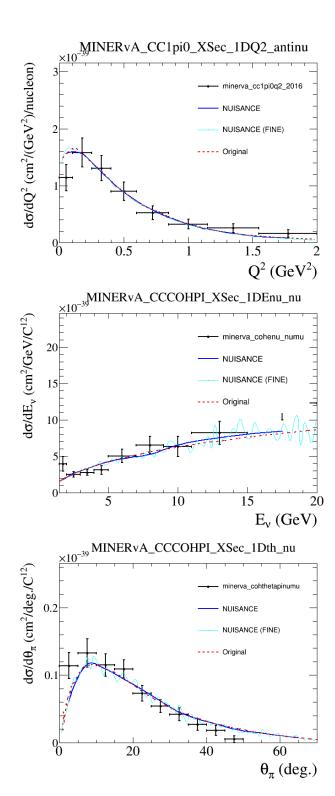
MINERvA_CC1pi0_XSec_1Dpmu_antinu_settings

- name : MINERvA_CC1pi0_XSec_1Dpmu_antinu
- $\bullet \ input: GENIE: @GENIE_DIR/gntp.R-2_6_3. Official Default. Default. MINERvA_rhc_numubar. CH. 2500000. 2. prepared to the property of the p$
- type : DEFAULT
- description
- |--> MINERvA_CC1pi0_XSec_1Dpmu_antinu sample.
- |--> Target: CH
- |--> Flux: MINERvA Forward Horn Current numubarr
- I--> Signal: Any event with 1 muon, 1 pion, no other tracks

- $$\begin{split} &\bullet \text{ xtitle : } p_{\mu}\left(GeV\right) \\ &\bullet \text{ ytitle : } d\sigma/dp_{\mu}\left(cm^{2}/GeV/nucleon\right) \\ &\bullet \text{ default_types : } FIX,FREE,SHAPE/DIAG/NORM/MASK \end{split}$$
- allowed_types : FIX/DIAG
- enu_min : 1.5
- enu_max : 10
- title : MINERvA_CC1pi0_XSec_1Dpmu_antinu
- originalname : MINERvA_CC1pi0_XSec_1Dpmu_antinu
- χ² : 7.07499 NDOF : 9
- $\chi^2/NDOF : 0.78611$

MINERvA_CC1pi0_XSec_1Dth_antinu_2016_settings

- name: MINERvA_CC1pi0_XSec_1Dth_antinu_2016
- $\bullet \ input: GENIE: @GENIE_DIR/gntp.R-2_6_3. Official Default. Default. MINERvA_rhc_numubar. CH. 2500000. 2. prepared to the property of the p$
- type : DEFAULT
- description
- |--> MINERvA_CC1pi0_XSec_1Dth_antinu sample.
- I--> Target: CH
- |--> Flux: MINERvA Forward Horn Current numubar
- I--> Signal: Any event with 1 muon, 1 pion, no other tracks
- xtitle : θ_π (degrees)
- ytitle : $d\sigma/d\theta_{\pi}$) (cm²/nucleon/degree)
- $\bullet \ default_types: FIX,FREE,SHAPE/DIAG,FULL/NORM/MASK$
- $\bullet \ allowed_types: FIX/FULL \\$
- enu min: 1.5
- enu_max : 10
- title : MINERvA_CC1pi0_XSec_1Dth_antinu
- originalname : MINERvA_CC1pi0_XSec_1Dth_antinu_2016
- χ²: 7.75216
- NDOF : 11
- χ²/NDOF : 0.704742



MINERvA_CC1pi0_XSec_1DQ2_antinu_settings

- name : MINERvA_CC1pi0_XSec_1DQ2_antinu
- $\bullet \ input: GENIE: @GENIE_DIR/gntp.R-2_6_3. Official Default. Default. MINERvA_rhc_numubar. CH. 2500000.2. preparation of the property of the$
- type : DEFAULT
- description
- |--> MINERvA_CC1pi0_XSec_1DQ2_antinu sample
- I--> Target: CH
- |--> Flux: MINERvA Forward Horn Current numubar
- I--> Signal: Any event with 1 muon, 1 pion, no other tracks
- $\bullet \ \textbf{xtitle} : Q^2 \, (GeV^2) \\$
- ytitle : $d\sigma/dQ^2$ (cm²/(GeV²)/nucleon)
- $\bullet \ default_types: FIX,FREE,SHAPE/DIAG/NORM/MASK$
- allowed_types : FIX/DIAG
- enu_min: 1.5
- enu_max : 10
- title : MINERvA_CC1pi0_XSec_1DQ2_antinu
- originalname : MINERvA_CC1pi0_XSec_1DQ2_antinu
- χ^2 : 10.4201 • NDOF : 8
- χ²/NDOF: 1.30251

MINERvA_CCCOHPI_XSec_1DEnu_nu_settings

- name: MINERVA_CCCOHPI_XSec_1DEnu_nu
 input: GENIE:@GENIE_DIR/gntp.R-2_6_3.0fficialDefault.Default.MINERvA_fhc_numu.CH.2500000.1.prepared
- type : DEFAULT description :
- |--> MINERvA_CCCOHPI_XSec_IDEnu_nu sample |--> Target: CH
- |--> Flux: MINERvA Forward Horn Current numu
- l--> Signal: Any event with 1 mu-, 1pi+, and no other FS particles xtitle : E_v (GeV)

- ytitle : do/dE_v (cm²/GeV/C¹²)

 default_types : FIX,FREE,SHAPE/DIAG,FULL/NORM/MASK
- allowed_types : FIX/FULL enu_min : 1.5

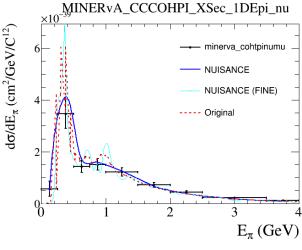
- enu_max : 20
 title : MINERvA_CCCOHPI_XSec_1DEnu_nu
- $\bullet \ data: /data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/nullength. \\$
- covar : /data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/
- originalname : MINERvA_CCCOHPI_XSec_1DEnu_nu
- χ²: 14272.4 • NDOF : 9
- χ²/NDOF : 1585.83

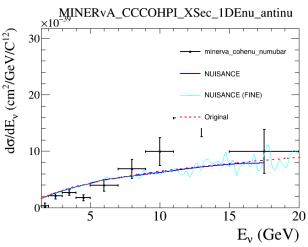
MINERvA_CCCOHPI_XSec_1Dth_nu_settings

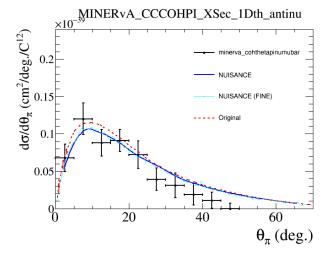
- name : MINERvA_CCCOHPI_XSec_1Dth_nu
 input : GENIE:@GENIE_DIR/gntp.R-2_6_3.0fficialDefault.Default.MINERvA_fhc_numu.CH.2500000.1.prepared
- type : DEFAULT description :
- |--> MINERvA_CCCOHPI_XSec_1Dth_nu sample |--> Target: CH
- |--> Flux: MINERvA Forward Horn Current numu
- 1--> Signal: Any event with 1 mu-, 1pi+, and no other FS particles
- xtitle : θ_{π} (deg.)
- $\label{eq:potential} \begin{array}{l} \bullet \mbox{ ytitle : } d\sigma \! / d\theta_\pi \mbox{ (cm}^2 \! / deg \slash C^{12}) \\ \bullet \mbox{ default_types : FIX,FREE,SHAPE/DIAG,FULL/NORM/MASK} \end{array}$
- allowed_types : FIX/FULL enu_min : 1.5

- enu_max : 20 title : MINERvA_CCCOHPI_XSec_1Dth_nu
- $\bullet \ data: \ / data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/nulled/lines/minerva-validation-061117/builds/nu$ covar : /data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/
- originalname : MINERvA_CCCOHPI_XSec_1Dth_nu χ^2 : 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
- 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
- signal: Any event wint 1 mar, pre, and no other PS particle

 * with: E: (GEV)

 * yith: dc/dE_x (m²/GeV/C¹²)

 * dcfault_types: FIX.FREE.SHAPE/DIAG,FULL/NORM/MASK

 * allowed_types: FIX/FULL

- enm_max: 20
 title: MINERVA_CCCOHPI_XSec_1DEpi_nu
 data: /data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/n • covar : /data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/
- $\bullet \ original name : MINERvA_CCCOHPI_XSec_1DEpi_nu \\$
- 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_3.0fficialDefault.Default.MINERvA_rhc_numubar.CH.2500000.2.prepa
- type : DEFAULT description :
- |--> MINERvA_CCCOHPI_XSec_1DEnu_antinu sample |--> Target: CH
- |--> Flux: MINERvA Reverse Horn Current numu
- I--> Signal: Any event with 1 mu+, 1pi-, and no other FS particles
- $\bullet \ \textbf{xtitle} : E_v \ (GeV)$
- ytitle : $d\sigma/dE_v$ (cm²/GeV/C¹²
- default_types : FIX,FREE,SHAPE/DIAG,FULL/NORM/MASK
- allowed_types : FIX/FULL enu_min : 1.5

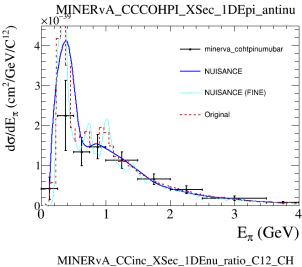
- enu_max : 20
 title : MINERvA_CCCOHPI_XSec_1DEnu_antinu
- data : /data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/n
 covar : /data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/
- originalname : MINERvA_CCCOHPI_XSec_1DEnu_antinu
- χ²: 39.8795
- NDOF: 9 • χ²/NDOF : 4.43105

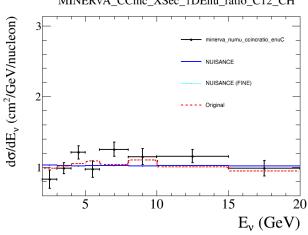
MINERvA_CCCOHPI_XSec_1Dth_antinu_settings

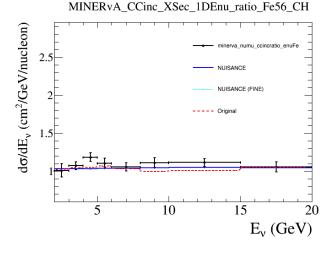
- name: MINERvA_CCCOHPI_XSec_1Dth_antinu
 input: GENIE:@GENIE_DIR/gntp.R-2_6_3.0fficialDefault.Default.MINERvA_rhc_numubar.CH.2500000.2.prepa
- $\bullet \ type : DEFAULT \\$ description
- |--> MINERvA_CCCOHPI_XSec_1Dth_antinu sample |--> Target: CH
- |--> Flux: MINERvA Reverse Horn Current numu
- I--> Signal: Any event with 1 mu+, 1pi-, and no other FS particles • xtitle : θ_{π} (deg.)

- $\label{eq:potential} \begin{array}{l} \bullet \mbox{ ytitle : } d\sigma/d\theta_\pi \mbox{ (cm}^2/deg./C^{12}) \\ \bullet \mbox{ default_types : } FIX,FREE,SHAPE/DIAG,FULL/NORM/MASK \end{array}$
- allowed_types : FIX/FULL enu_min : 1.5

- enu_max : 20
 title : MINERvA_CCCOHPI_XSec_1Dth_antinu
- $\bullet \ data: \ / data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/nulled/lines/minerva-validation-061117/builds/nu$
- covar : /data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/ • originalname : MINERvA_CCCOHPI_XSec_1Dth_antinu • χ² : 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
- type : DEFAULT description :
- |--> MINERvA_CCCOHPI_XSec_1DEpi_antinu sample. |--> Target: CH

- |--> Flux: MINERvA Reverse Horn Current numu |--> Signal: Any event with 1 mu+, 1pi-, and no other FS particles

- xtitle : $E_{\pi}(GeV)$ ytitle : $d\sigma/dE_{\pi}(cm^2/GeV/C^{12})$ default_types : FIX_FREE_SHAPE/DIAG,FULL/NORM/MASK
- allowed_types : FIX/FULL

- enu_max: 20

 title: MINERVA_CCCOHPI_XSec_1DEpi_antinu

 data: /data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/n

 covar: /data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/n
- originalname : MINERvA_CCCOHPI_XSec_1DEpi_antinu
- NDOF: 9 • χ²/NDOF : 0.910517

MINERvA_CCinc_XSec_1DEnu_ratio_C12_CH_settings

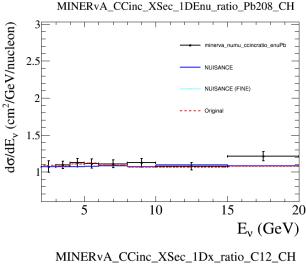
- name : MINERVA_CCinc_XSec_1DEnu_ratio_C12_CH
 input : GENIE:@GENIE_DIR/gntp.R-2_6_3.0fficialDefault.Default.MINERvA_fhc_numu.C.2500000.5.prepared.r
- type : DEFAULT
- description :
- |--> MINERvA_CCinc_XSec_1DEnu_ratio sample. |--> Target: CH
- |--> Flux: MINERvA Forward Horn Current nue + nuebar
- I--> Signal: Any event with 1 electron, any nucleons, and no other FS particles
- $\bullet \ \textbf{xtitle} : E_v \ (GeV)$
- $\begin{tabular}{ll} \bullet \begin{tabular}{ll} \begin{tabular}{ll} \bullet \begin{tabular}{ll} \begin{tabular}{ll}$
- allowed_types : FIX/FULL enu_min : 0

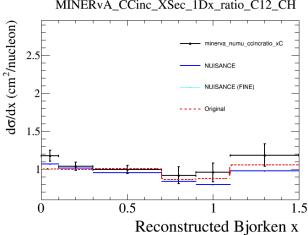
- enu_max : 20 title : MINERvA_CCinc_XSec_1DEnu_ratio
- $\bullet \ data: \textit{/data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/normalization-061117/builds/nor$
- covar : /data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/
- originalname: MINERvA_CCinc_XSec_1DEnu_ratio_C12_CH
- χ²: 1.87185e+75
- NDOF: 8
- χ²/NDOF : 2.33981e+74

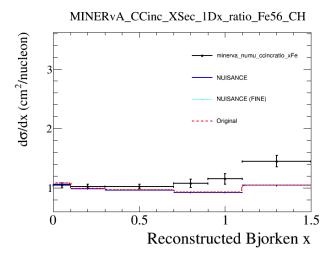
MINERvA_CCinc_XSec_1DEnu_ratio_Fe56_CH_settings

- name : MINERVA_CCinc_XSec_1DEnu_ratio_Fe56_CH
 input : GENIE:@GENIE_DIR/gntp.R-2_6_3.OfficialDefault.Default.MINERvA_fhc_numu.Fe.2500000.6.prepared.
- $\bullet \ type : DEFAULT \\$ description
- |--> MINERvA_CCinc_XSec_1DEnu_ratio sample. |--> Target: CH
- |--> Flux: MINERvA Forward Horn Current nue + nuebar
- 1--> Signal: Any event with 1 electron, any nucleons, and no other FS particles
- $\bullet \ \textbf{xtitle} : E_v \ (GeV)$
- $\begin{tabular}{ll} \bullet \begin{tabular}{ll} \begin{tabular}{ll} \bullet \begin{tabular}{ll} \begin{tabular}{ll}$
- allowed_types : FIX/FULL enu_min : 0

- enu_max : 20 title : MINERvA_CCinc_XSec_1DEnu_ratio
- data : /data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/n
 covar : /data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/n
- originalname : MINERvA_CCinc_XSec_1DEnu_ratio_Fe56_CH
- χ² : 3.20108e+74
- NDOF: 8
- χ²/NDOF : 4.00136e+73







MINERvA_CCinc_XSec_1DEnu_ratio_Pb208_CH_settings

- name: MINERvA CCinc XSec 1DEnu ratio Pb208 CH
- input : GENIE:@GENIE_DIR/gntp.R-2_6_3.OfficialDefault.Default.MINERvA_fhc_numu.Pb.2500000.7.prepared.
- type : DEFAULT description :
- |--> MINERvA_CCinc_XSec_IDEnu_ratio sample |--> Target: CH
- I--> Flux: MINERvA Forward Horn Current nue + nuebar
 I--> Signal: Any event with 1 electron, any nucleons, and no other FS particles

- xtitle : E_v (GeV)
 ytitle : d\u00f3/dE_v (cm²/GeV/nucleon)
 default_types : FIX/DIAG,FULL/MASK
- allowed_types : FIX/FULL

- enu_min: 0
 enu_max: 20
 ettide: MiNERvA_CCinc_XSec_1DEnu_ratio
 ettide: MiNERvA_CCinc_XSec_1DEnu_ratio
 etata: //data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/n
 ecovar: //data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/n

 NIVERIAL COMMENTATION OF THE PROPERTY OF THE PRO
- originalname : MINERvA_CCinc_XSec_1DEnu_ratio_Pb208_CH
- NDOF: 8
- χ²/NDOF : 3.24398e+73

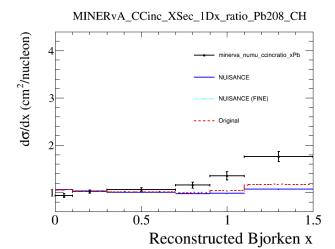
MINERvA_CCinc_XSec_1Dx_ratio_C12_CH_settings

- name : MINERVA_CCinc_XSec_1Dx_ratio_C12_CH
 input : GENIE:@GENIE_DIR/gntp.R-2_6_3.0fficialDefault.Default.MINERvA_fhc_numu.C.2500000.5.prepared.r
- type : DEFAULT
- description :
- |--> MINERvA_CCinc_XSec_1Dx_ratio sample |--> Target: CH
- |--> Flux: MINERvA Forward Horn Current nue + nuebar
- I--> Signal: Any event with 1 electron, any nucleons, and no other FS particles
- xtitle : Reconstructed Bjorken x ytitle : d\u00f3/dx (cm^2/nucleon)
- default_types : FIX/DIAG,FULL/MASK
- allowed_types : FIX/FULL enu_min : 0
- enu_max : 20 title : MINERvA_CCinc_XSec_1Dx_ratio
- $\bullet \ data: \textit{/data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/nample_validations/minerva-validation-061117/builds/nample_validations/minerva-validation-061117/builds/nample_validations/minerva-validation-061117/builds/nample_validations/minerva-validation-061117/builds/nample_validations/minerva-validation-061117/builds/nample_validations/minerva-validation-061117/builds/nample_validations/minerva-validation-061117/builds/nample_validations/minerva-validation-061117/builds/nample_validations/minerva-validation-061117/builds/nample_validation-061117/bu$
- covar : /data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/
- originalname : MINERvA_CCinc_XSec_1Dx_ratio_C12_CH
- χ²: 7.40944e+74
- NDOF : 6
- χ²/NDOF : 1.23491e+74

MINERvA_CCinc_XSec_1Dx_ratio_Fe56_CH_settings

- name : MINERVA_CCinc_XSec_1Dx_ratio_Fe56_CH
 input : GENIE:@GENIE_DIR/gntp.R-2_6_3.0fficialDefault.Default.MINERvA_fhc_numu.Fe.2500000.6.prepared:
- $\bullet \ type : DEFAULT \\$ · description :
- |--> MINERvA_CCinc_XSec_1Dx_ratio sample. |--> Target: CH
- |--> Flux: MINERvA Forward Horn Current nue + nuebar
- 1--> Signal: Any event with 1 electron, any nucleons, and no other FS particles
- xtitle : Reconstructed Bjorken x vtitle : dσ/dx (cm²/nucleon)
- default_types : FIX/DIAG,FULL/MASK
- allowed_types : FIX/FULL enu_min : 0

- enu_max : 20 title : MINERvA_CCinc_XSec_1Dx_ratio
- data : /data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/n
 covar : /data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/n
- originalname : MINERvA_CCinc_XSec_1Dx_ratio_Fe56_CH
- χ² : 2.20754e+75
- NDOF: 6
 χ²/NDOF: 3.67923e+74



MINERvA_CCinc_XSec_1Dx_ratio_Pb208_CH_settings

- $\begin{tabular}{ll} \bullet name: MINERVA_CCinc_XSec_1Dx_ratio_Pb208_CH \\ \bullet input: GENIE:@GENIE_DIR/gntp.R-2_6_3.0fficialDefault.Default.MINERvA_fhc_numu.Pb.2500000.7.prepared. \\ \end{tabular}$ input: GENIE:@GENIE_DIR/gntp.R-2_6_3.OfficialDefault.Default.MINERv/
 type: DEFAULT
 description:
 |-> MINERvA_CCinc_XSec_IDx_ratio sample.
 |-> Flux: MINERvA Forward Horn Current nue + nuebar
 |-> Flux: MINERvA Forward Horn Current nue + nuebar
 |-> Signal: Any event with 1 electron, any nucleons, and no other FS particles xitile: Reconstructed Bjorken x
 ytitle: do/dx (cm²/nucleon)
 default_type: FIX/DIAG.FULL/MASK
 allowed_types: FIX/FULL

- default_types: FIX/DIAG.FULL/MASK
 allowed_types: FIX/FULL
 enu_min: 0
 enu_max: 20
 enu_max: 20
 title: MINERVA_CCinc_XSec_IDx_ratio
 data: //data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/n
 covar: //data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/
 covar: //data/stowell/NIWG/NUISANCEMC/minerva_tuning/sample_validations/minerva-validation-061117/builds/
 originalname: MINERVA_CCinc_XSec_IDx_ratio_Pb208_CH
 ½: 6.68334e+75
 NDOF: 6
 χ^2 /NDOF: 1.11389e+75