

```
MINERvA_CC0pi_XSec_1DQ2_TgtC_nu_settings
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- name : MINERvA\_CC0pi\_XSec\_1DQ2\_TgtC\_nu
   input : GENIE:@GENIE\_DIR/gntp.R-2\_8\_6.0fficialDefault.Default.MINERvA\_fhc\_numu.C.2500000.5.prepared.r-
- type : DEFAULT description :
- |--> MINERvA\_CC0pi\_XSec\_1DQ2\_Tgt\_nu sample. |--> Target: Either C, CH, Fe, Pb

- |--> flux MiNERVA Forward Horn numu |--> flux MiNERVA Forward Horn numu |--> flux MiNERVA Forward Horn numu |--> flux GeV<sup>2</sup>| vitile : Q<sup>2</sup><sub>GE</sub> (GeV<sup>2</sup>) vitile : do/dQ<sup>2</sup> (cm<sup>2</sup>/GeV<sup>2</sup>) default\_types : FIX\_FREE\_SHAPE/DIAG/NORM

- allowed\_types : FIX/DIAG
- enu\_min : 0

- enu\_max: 100
   title: MINERvA\_CC0pi\_XSec\_1DQ2\_Tgt\_nu
   data: /data/stowell/NIWG/NPCTuning/Validations/minerva-validation-template/builds/v2r6/data//MINERvA/CC0pi
- covar : /data/stowell/NIWG/NPCTuning/Validations/minerva-validation-template/builds/v2r6/data//MINERvA/CC0<sub>1</sub>
- $\bullet \ original name : MINERvA\_CC0pi\_XSec\_1DQ2\_TgtC\_nu \\$
- NDOF : 5
- χ<sup>2</sup>/NDOF : 1.16902

## MINERvA\_CC0pi\_XSec\_1DQ2\_TgtFe\_nu\_settings

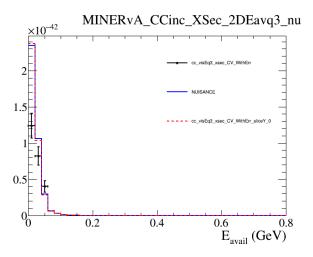
- name : MINERvA\_CC0pi\_XSec\_1DQ2\_TgtFe\_nu
   input : GENIE:@GENIE\_DIR/gntp.R-2\_8\_6.OfficialDefault.Default.MINERvA\_fhc\_numu.Fe.2500000.6.prepared:
- type : DEFAULT
- description :
- |--> MINERvA\_CC0pi\_XSec\_1DQ2\_Tgt\_nu sample |--> Target: Either C, CH, Fe, Pb
- |--> Flux: MINERvA Forward Horn numu
- l--> Signal: Any event with 1 muon, 1 proton p>450, no pions xtitle :  $Q_{QE}^2$  (GeV<sup>2</sup>) ytitle : dd/dQ<sup>2</sup> (cm²/GeV<sup>2</sup>)

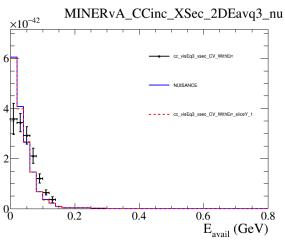
- default\_types : FIX,FREE,SHAPE/DIAG/NORM
- allowed\_types : FIX/DIAG enu\_min : 0

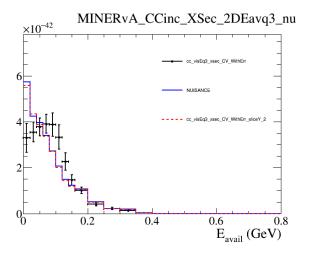
- enu\_max : 100 title : MINERvA\_CC0pi\_XSec\_1DQ2\_Tgt\_nu
- data : /data/stowell/NIWG/NPCTuning/Validations/minerva-validation-template/builds/v2r6/data//MINERvA/CCOpi
   covar : /data/stowell/NIWG/NPCTuning/Validations/minerva-validation-template/builds/v2r6/data//MINERvA/CCOpi
- originalname : MINERvA\_CC0pi\_XSec\_1DQ2\_TgtFe\_nu
- χ<sup>2</sup>: 10.7643
- NDOF : 5
- γ<sup>2</sup>/NDOF : 2.15285

## MINERvA\_CC0pi\_XSec\_1DQ2\_TgtPb\_nu\_settings

- name : MINERvA\_CC0pi\_XSec\_1DQ2\_TgtPb\_nu
   input : GENIE:@GENIE\_DIR/gntp.R-2\_8\_6.OfficialDefault.Default.MINERvA\_fhc\_numu.Pb.2500000.7.prepared.
- type : DEFAULT
- · description :
- |--> MINERvA\_CC0pi\_XSec\_1DQ2\_Tgt\_nu sample |--> Target: Either C, CH, Fe, Pb
- |--> Flux: MINERvA Forward Horn numu
- 1--> Signal: Any event with 1 muon, 1 proton p>450, no pions
- $\begin{array}{ll} \text{Signal. All Vector with Thirdsit, I proton parts }\\ \text{vittle: } Q_{\text{DE}}^{-} \left(\text{GeV}^2\right)\\ \text{vittle: } \text{d}\text{d}\text{/d}Q^2\left(\text{cm}^2/\text{GeV}^2\right)\\ \text{d}\text{efault\_types: } \text{FIX,FREE,SHAPE/DIAG/NORM} \end{array}$
- allowed\_types : FIX/DIAG
- enu\_min : 0
- enu\_max : 100 title : MINERvA\_CC0pi\_XSec\_1DQ2\_Tgt\_nu
- data : /data/stowell/NIWG/NPCTuning/Validations/minerva-validation-template/builds/v2r6/data//MINERvA/CCOpi
   covar : /data/stowell/NIWG/NPCTuning/Validations/minerva-validation-template/builds/v2r6/data//MINERvA/CCOp
- $\bullet \ original name : MINERvA\_CC0pi\_XSec\_1DQ2\_TgtPb\_nu \\$
- NDOF : 5
- $\chi^2/NDOF : 1.08783$





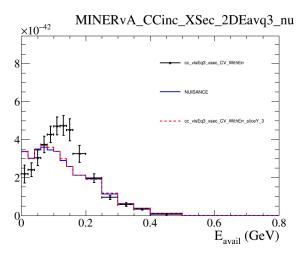


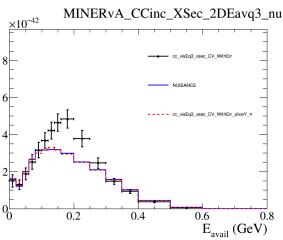
## MINERvA\_CCinc\_XSec\_2DEavq3\_nu\_settings

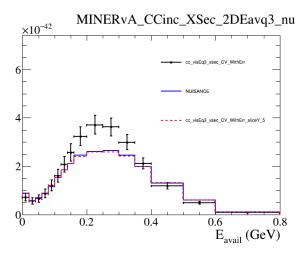
#### MINERvA\_CCinc\_XSec\_2DEavq3\_nu\_settings

```
• name : MINERvA_CCinc_XSec_2DEavq3_nu
• input : GENIE:@GENIE_DIR/gntp.R-2_8_6.OfficialDefault.Default.MINERvA_fhc_numu.CH.2500000.1.prepared
• type : DEFAULT
• description :
|-> MINERvA_CCinc_XSec_2DEavq3_nu sample.
|-> Target: CH
|-> Flux: MINERvA Medium Energy FHC numu
|-> Signal: CC-inclusive with theta < 20deg
• stitle : q_ (GeV)
• ytitle : E_grad (Cm^2/GeV^2)
• ytitle : E_grad (cm^2/GeV^2)
• default_types : FIX_FREE.SHAPE/FULL_DIAG/MASK
• allowed_types : FIX_FREE.SHAPE/FULL_DIAG/MASK
• allowed_types : FIX_FVULL
• enu_min : 2
• enu_min : 2
• enu_min : 6
• title : MINERvA_CCinc_XSec_2DEavq3_nu
• data : /data/stowel/IN/IWG/NPCTuning/Validations/minerva-validation-template/builds/v2r6/data//MINERvA/CCEa
• orag : /data/stowel/IN/IWG/NPCTuning/Validations/minerva-validation-template/builds/v2r6/data//MINERvA/CCEa
• originalname : MINERvA_CCinc_XSec_2DEavq3_nu
• x² : 2152.07
• NDOF : 67
• x²/NDOF : 32.1204
```

# MINERvA\_CCinc\_XSec\_2DEavq3\_nu\_settings







## MINERvA\_CCinc\_XSec\_2DEavq3\_nu\_settings

```
• name : MINERVA_CCinc_XSec_2DEavq3_nu

• input : GENIE::@GENIE_DIR/gntp.R-2_8_6.OfficialDefault.Default.MINERVA_fhc_numu.CH.2500000.1.prepared

• type : DEFAULT

• description :
|-> MINERVA_CCinc_XSec_2DEavq3_nu sample.
|-> Target: CH
|-> Flux: MINERVA Medium Energy FHC numu
|-> Signal: CC-inclusive with theta < 20deg

• xitile : a_1 (GeV)

• ytilte : fordiq_dE_au_(cm²/GeV²)

• default_types : FIX_FREE_SHAPE/FULL_DIAG/MASK

• allowed_types : Galaxies of the state of
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#### MINERvA\_CCinc\_XSec\_2DEavq3\_nu\_settings

```
• name : MINERVA_CCinc_XSec_2DEavq3_nu
• input : GENIE:@GENIE_DIR/gntp.R-2_8_6.OfficialDefault.Default.MINERVA_fbc_numu.CH.2500000.1.prepared
• type : DEFAULT
• description :

--> MINERVA_CCinc_XSec_2DEavq3_nu sample.

--> Flux: MINERVA Medium Energy FHC numu

--> Signal: CC-inclusive with theta < 20deg
• xtitle : q, (GeV)
• ytitle : E_gral (GeV)
• ytitle : E_gral (GeV)
• ytitle : E_gral (GeV)
• tritle : d'o'dtq_dE_gral (cm²/GeV²)
• default_types: FIX_FREE_SHAPE/FULL_DIAG/MASK
• allowed_types: FIX_FREE_SHAPE/FULL_DIAG/MASK
• allowed_typ
```

# MINERvA\_CCinc\_XSec\_2DEavq3\_nu\_settings