



皮影 Shadow play

Source: <http://www.cnhubei.com/ztnjys-pyts>

Neutrino Shadow Play

– Kinematic determination of nuclear effects at MINERvA

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on behalf of MINERvA Collaboration

Joint Experimental-Theoretical Physics Seminar

FNAL, 2 March 2018

– Appendix –

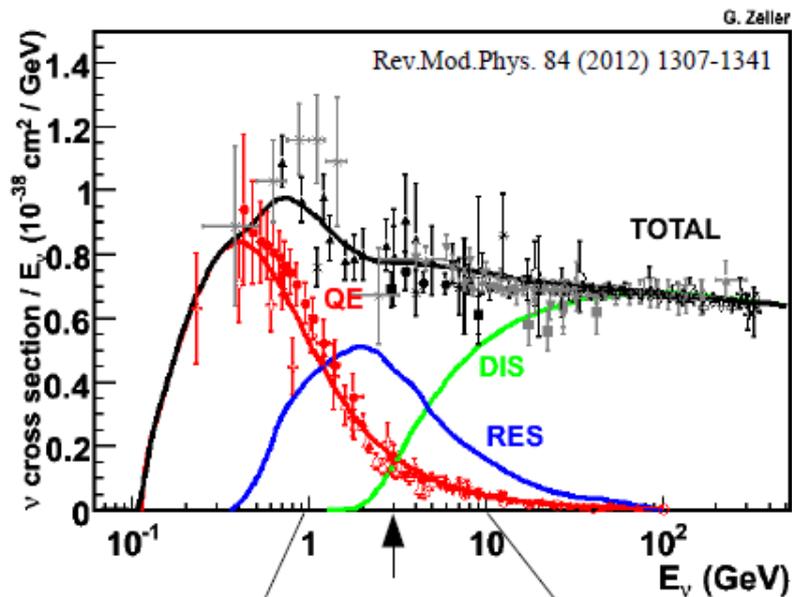
Notes

The T2K results compared to MINERvA on pages 102-103 of the W&C talk (copied to pages 3 and 5 of this Appendix) are unregularised data points. The regularised ones are shown in pages 4 and 6 in this Appendix.

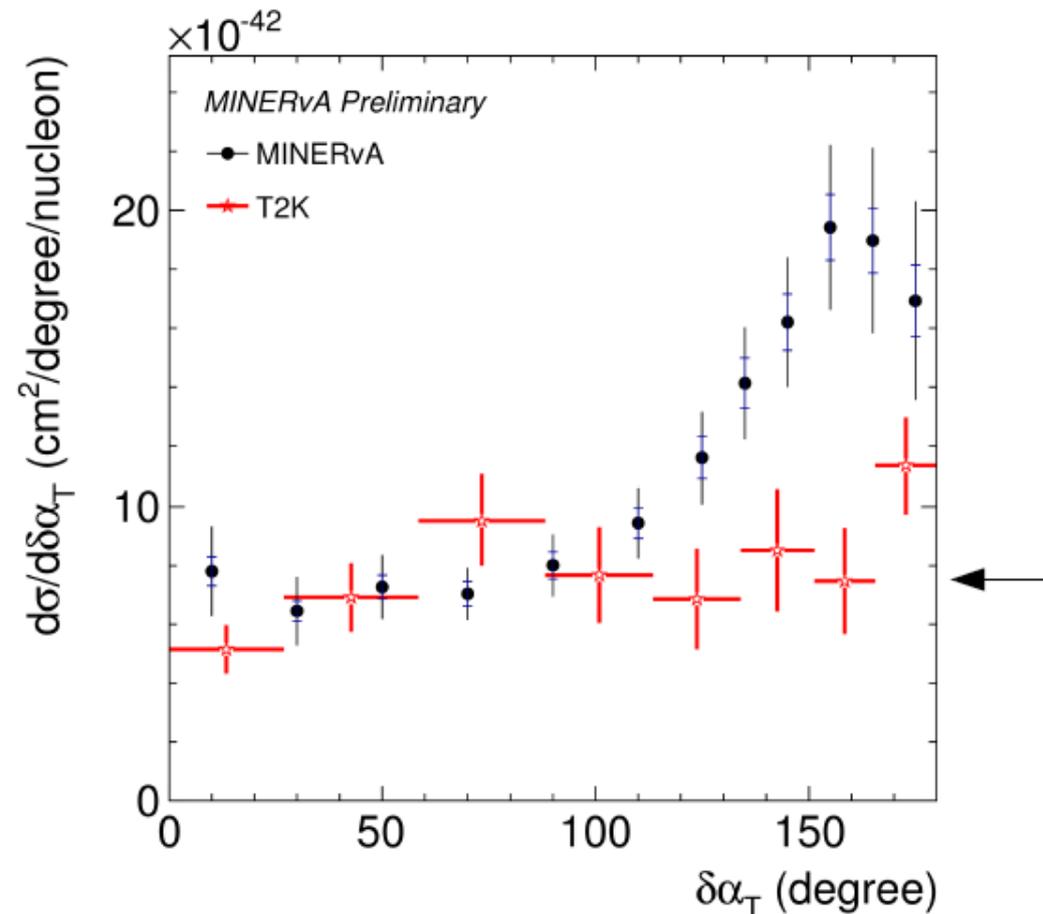
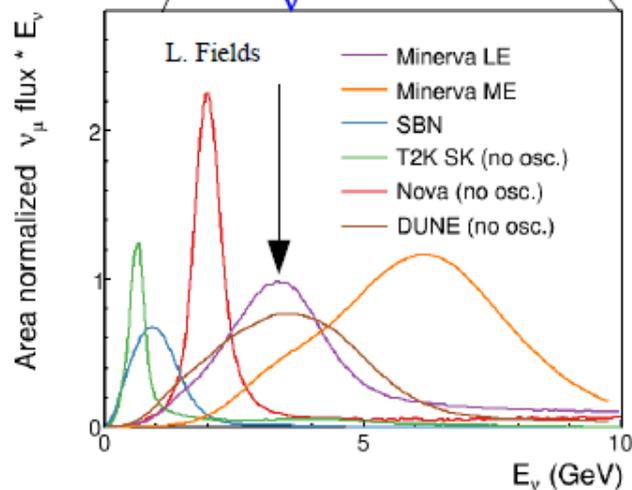
Advanced Topics: Comparison to T2K

[arXiv:1802.05078] *same target, slight difference in signal phase space definition

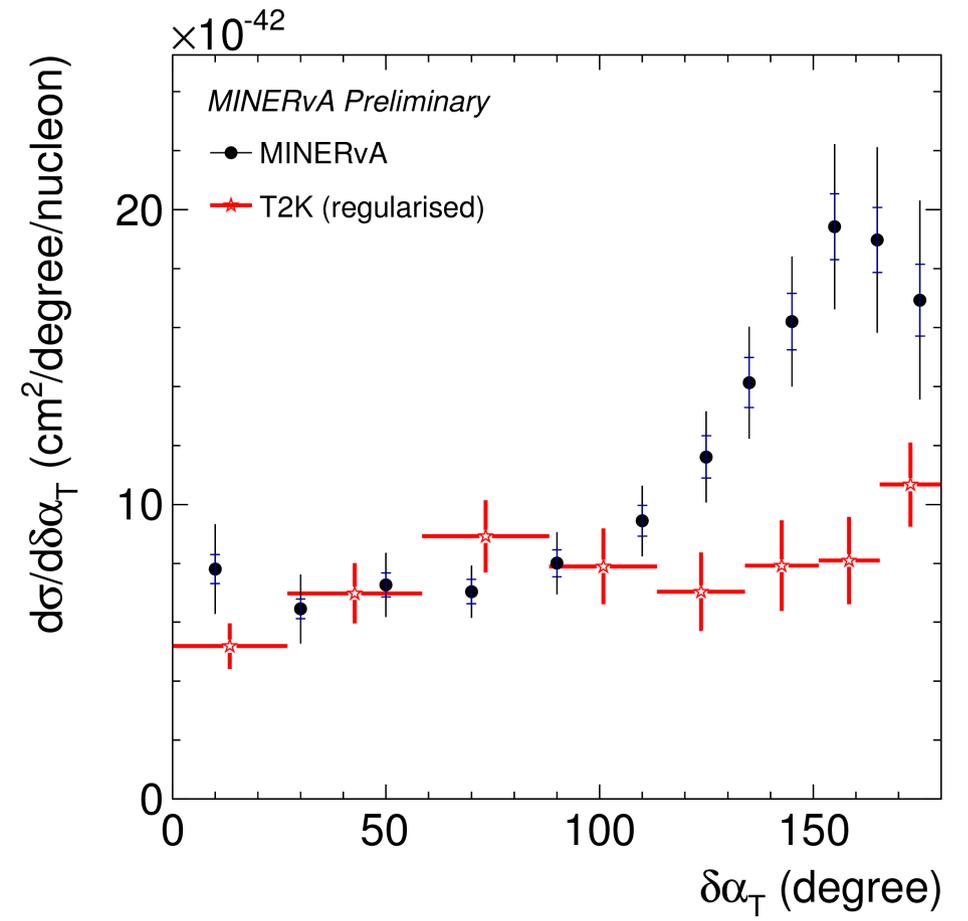
- $\delta\alpha_T$



NuMI LE
 $\langle E_\nu \rangle \sim 3 \text{ GeV}$



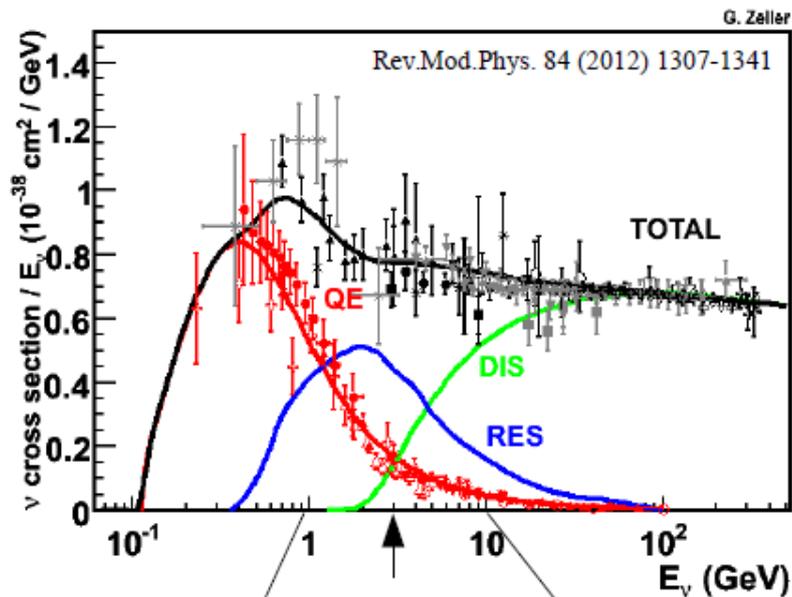
MINERvA-T2K difference mainly due to RES
Fermi motion (isotropic) baseline consistent



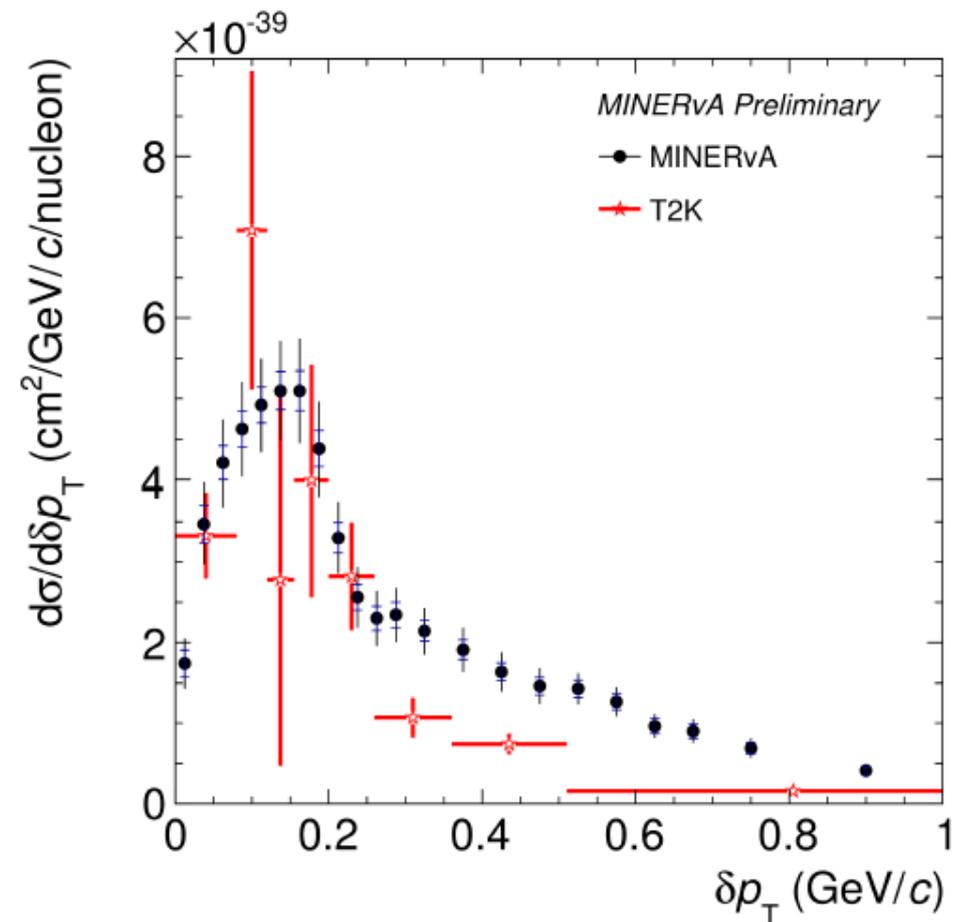
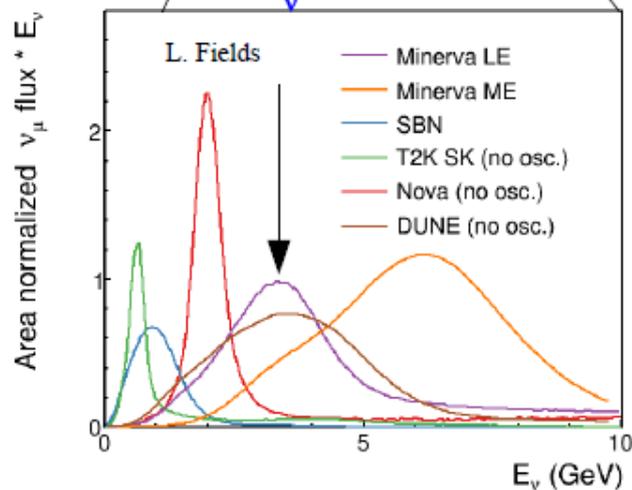
Advanced Topics: Comparison to T2K

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- $\delta\alpha_T$
- δp_T



NuMI LE
 $\langle E_\nu \rangle \sim 3$ GeV



MINERvA-T2K difference mainly due to RES
The QE peaks are consistent

