
NuSTEC Board Meeting: Publications WG update

Andrew Furmanski
13th December 2024



Who are we?

- Andy Furmanski
- Jorge Morfin
- Kajetan Niewczas



Goals of Publications WG

- “The NuSTEC Publications Working Group oversees the preparation and publication of NuSTEC papers and documents”
- This amounts to:
 - Organising NuSTEC-wide papers (2017 white paper, for example)
 - Supporting any NuSTEC members who want to publish e.g. workshop reports



Review Paper

- In ~summer 2023, we decided to write a global review paper
 - Considered an update to 2017 “white paper”
 - Focus on future challenges
 - Intended to be useful in parallel with P5 and European Strategy, to provide prioritisation
- Identified authors for various sections:

Impact on oscillations	C. Wret	QE/0π	A. Furmanski, S. Dolan, A. Nikolakopoulos
Nuclear model	K. Niewczas, N. Jachowicz, N. Rocco	Resonances	M. Kabirnezhad, R. Gonzalez Jimenez
Neutrino fluxes	J. Paley	SIS/DIS	S. Athar, J. Morfin
Event generators	S. Gardiner, S. Dytman, J Isaacson	Strange production	J. Nowak, C. Thorpe
Final state interactions	S. Dytman, L. Pickering, J. Sobczyk, Y. Hayato, J. Isaacson	Coherent processes	L. Alvarez-Ruso, J. Morfin, M. Hostert
Electron scattering	A. Ankowski, A. Ashkenazi, V. Pandey		

Paper status

- Paper is **95 pages** long
 - Longer than expected!
- We are globally editing to make the paper read more like a single document
 - This is challenging, and takes time
 - Currently **~50% edited**
 - Thanks to those who have met to discuss their sections!

NuSTEC Review: Current Experimental and Theoretical Challenges of
Neutrino-Nucleus Scattering

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(Dated: December 9, 2024)



Paper timeline

- Editing will continue through into January
- I hope/expect around February we can expect a complete paper
- In the meantime, anyone is free to read the paper and send comments/corrections!
 - Email me at afurmans@umn.edu for access!



Summary

- Review paper is a substantial update relative to 2017 white paper
 - Includes additional topics, and highlights challenges for the future
- If board members want to publish anything with the NuSTEC label, get in touch and we'll help!

