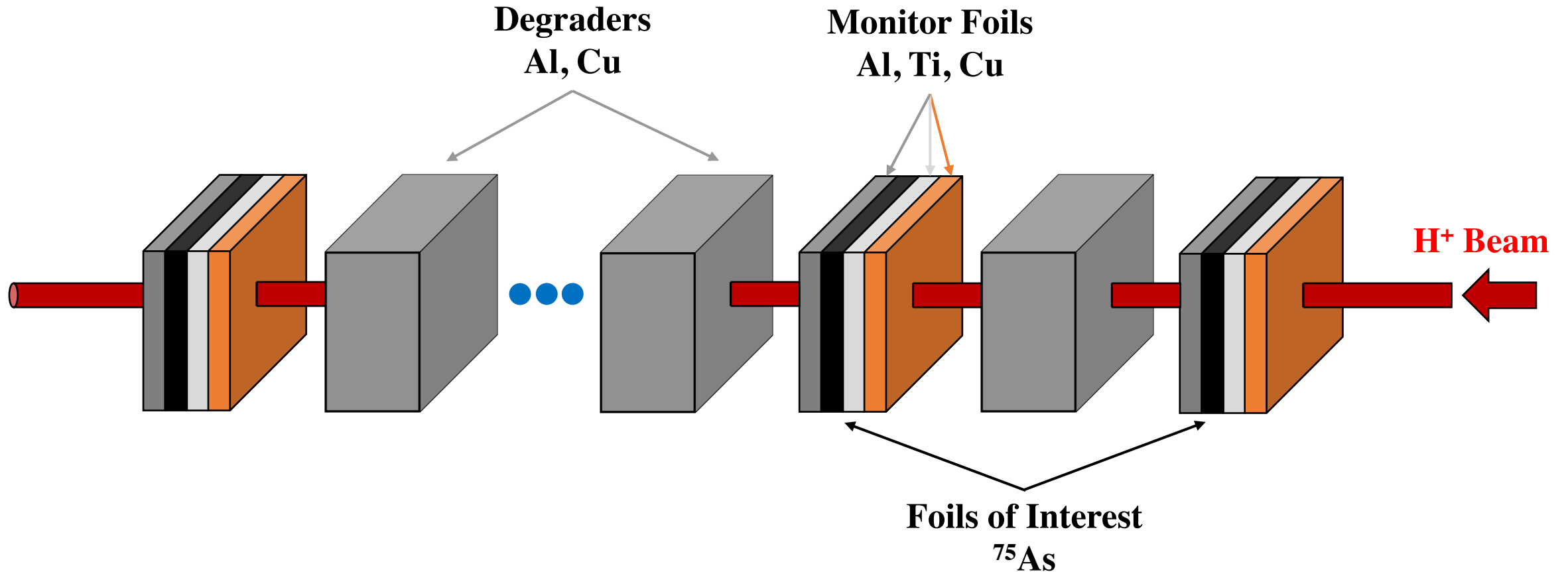


Stopping Power for Isotope Production Cross Section Measurements by Stacked-Target Activation

Morgan Fox

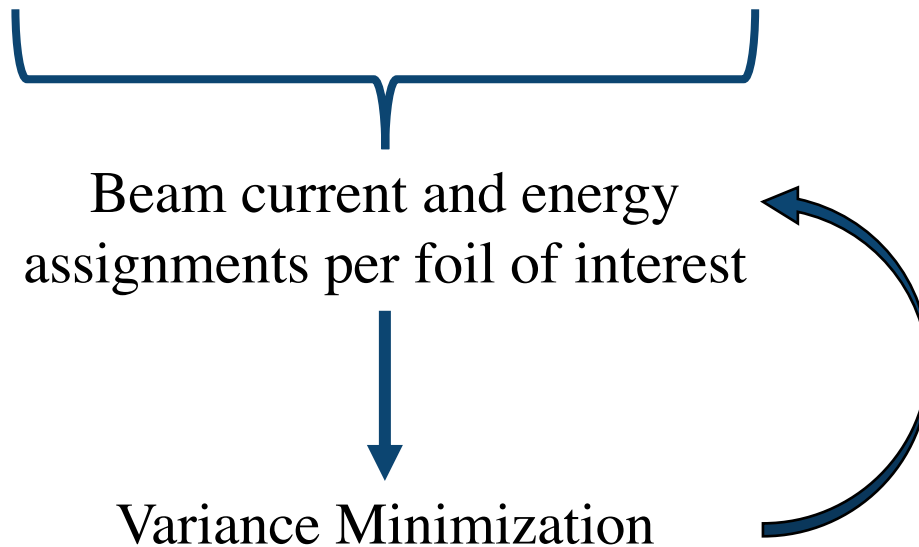
Department of Nuclear Engineering, University of California, Berkeley,
Lawrence Berkeley National Laboratory

Stacked-Target Methodology

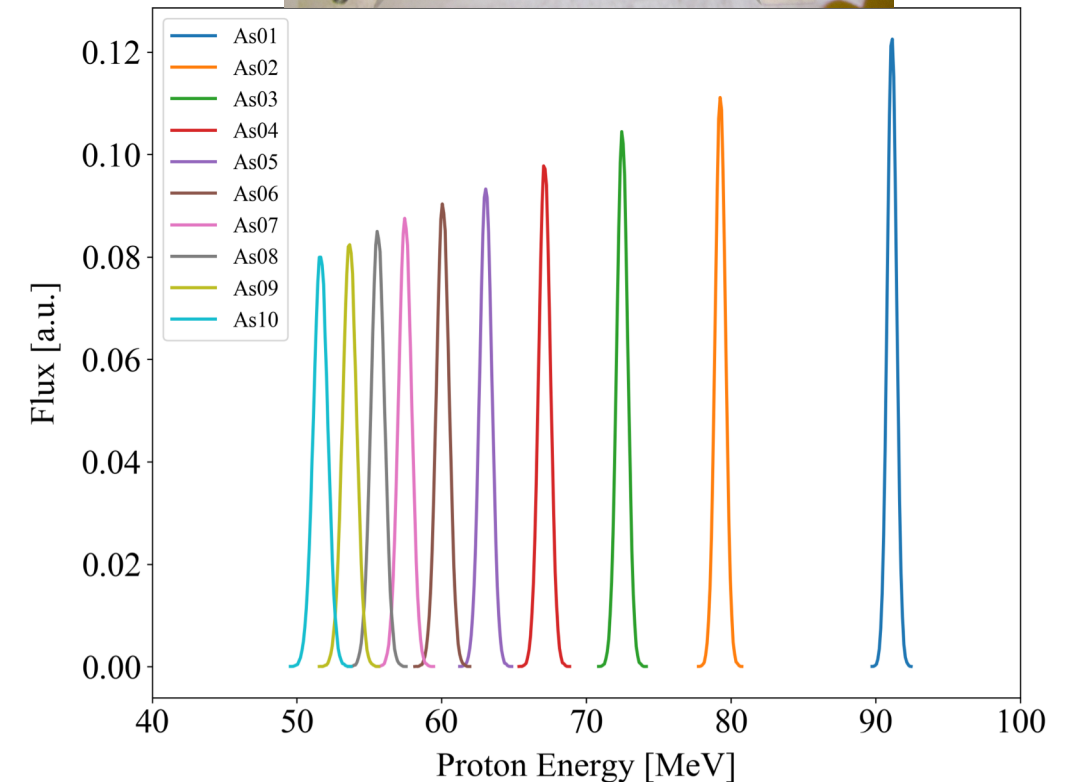
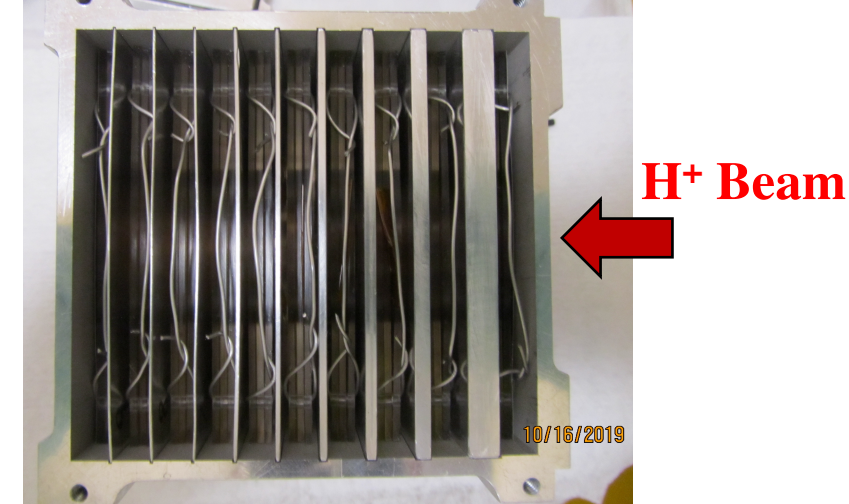


Stacked-Target Methodology

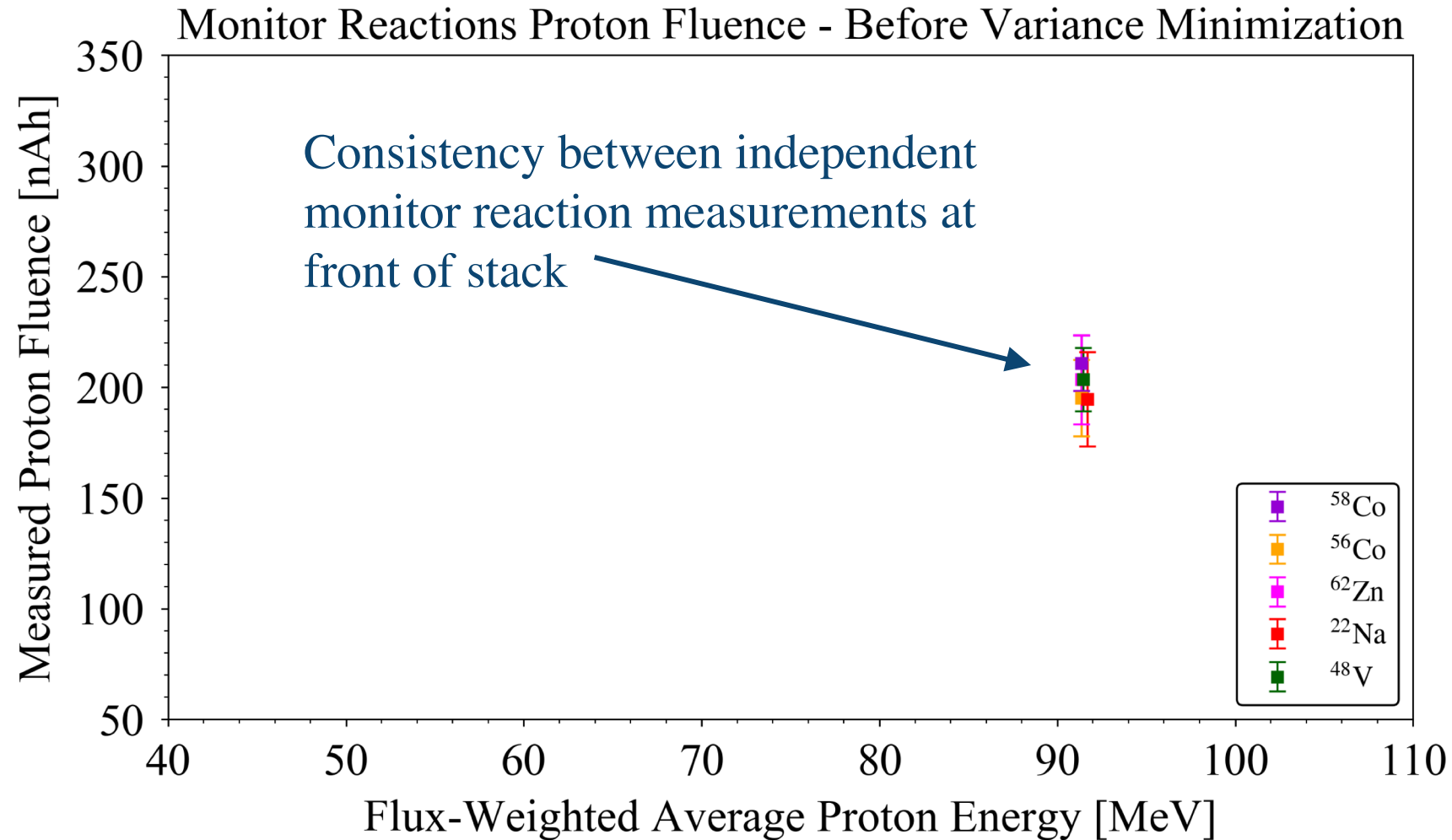
Simulated Proton Transport + Monitor Foil Activation



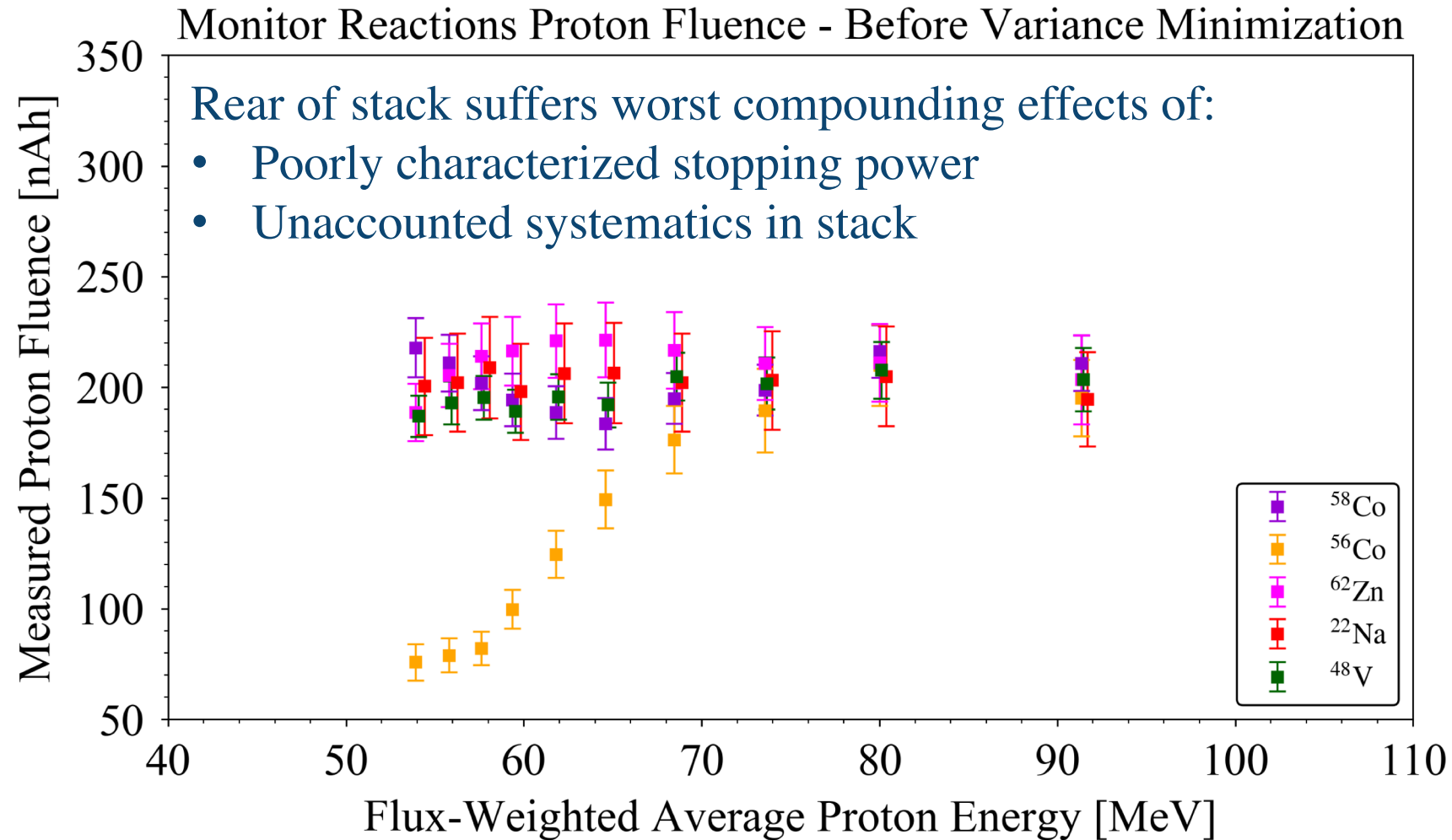
Corrective factor to stopping power through change in effective degrader density



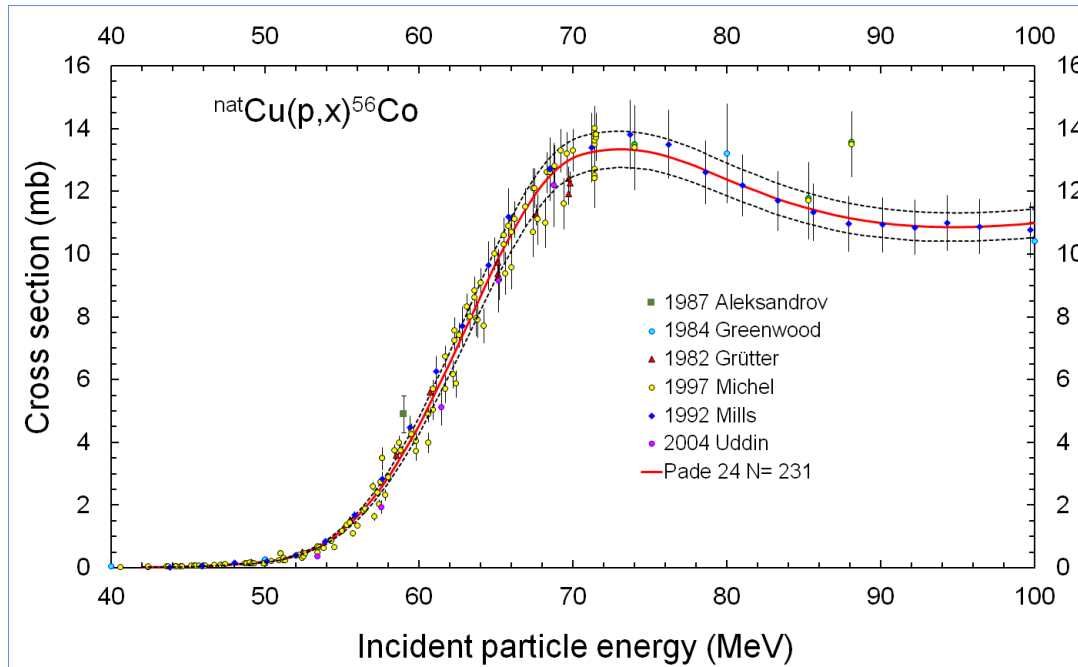
Simulation Shortcomings in Stack



Simulation Shortcomings in Stack

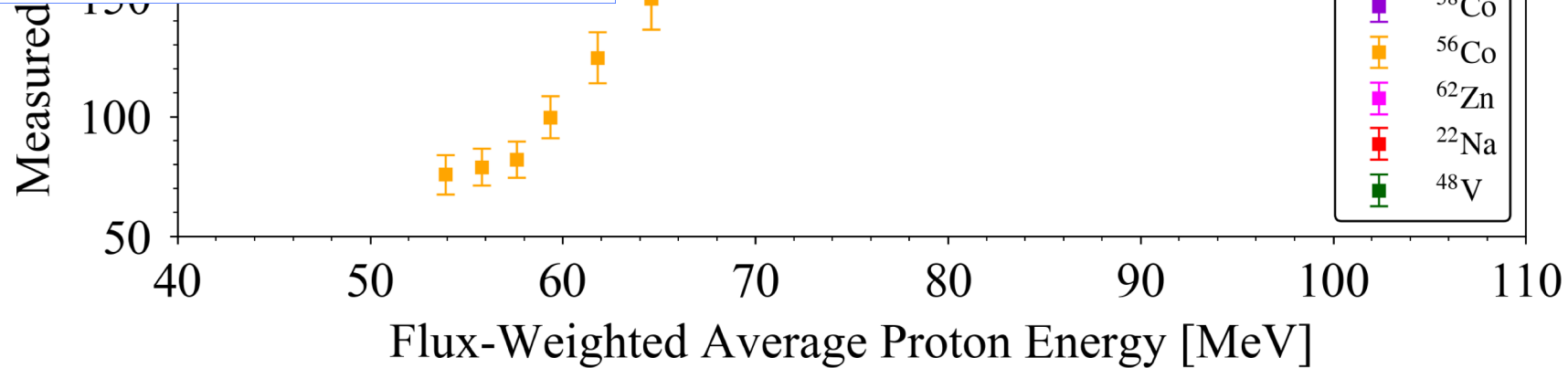


Simulation Shortcomings in Stack

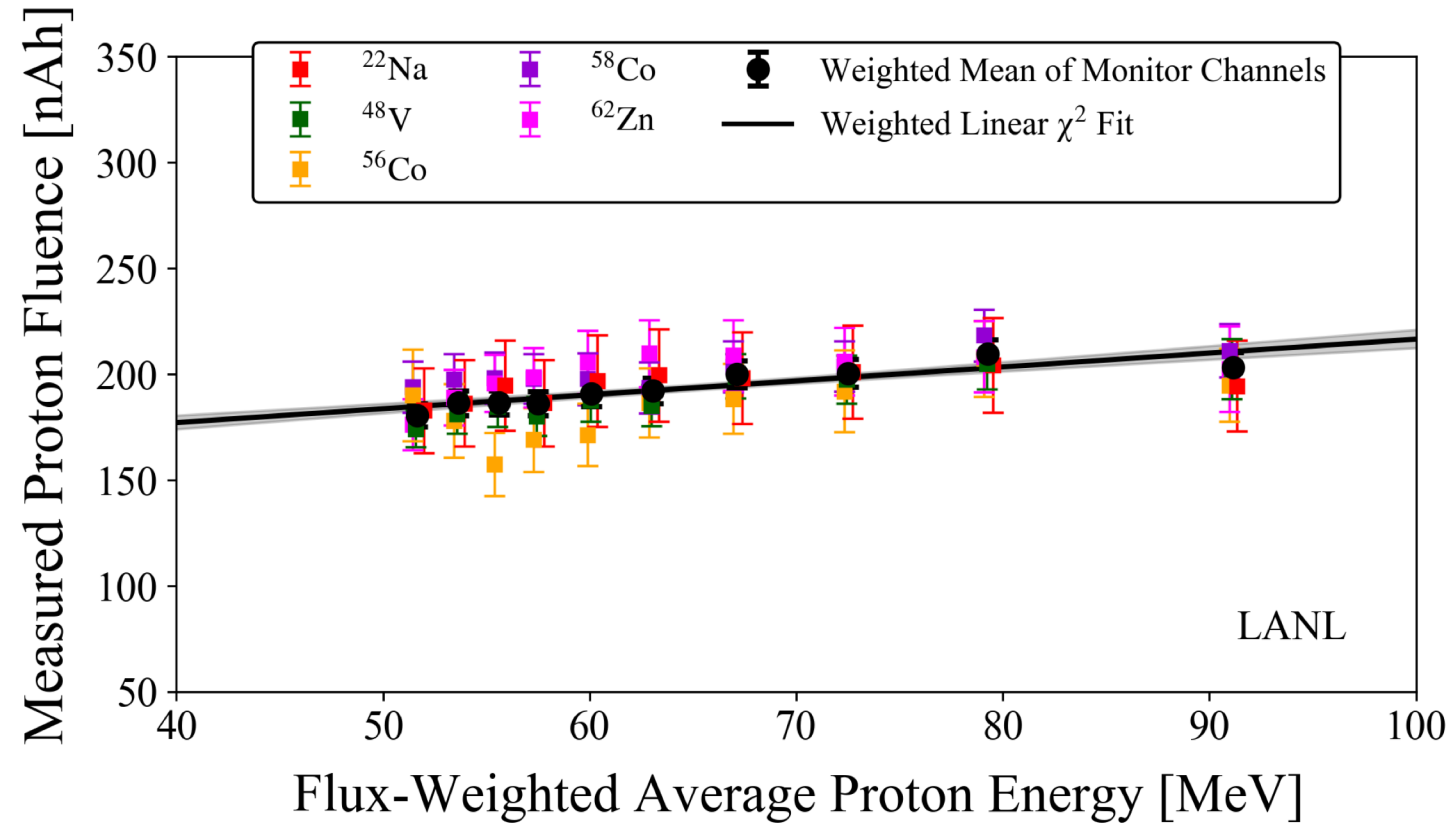
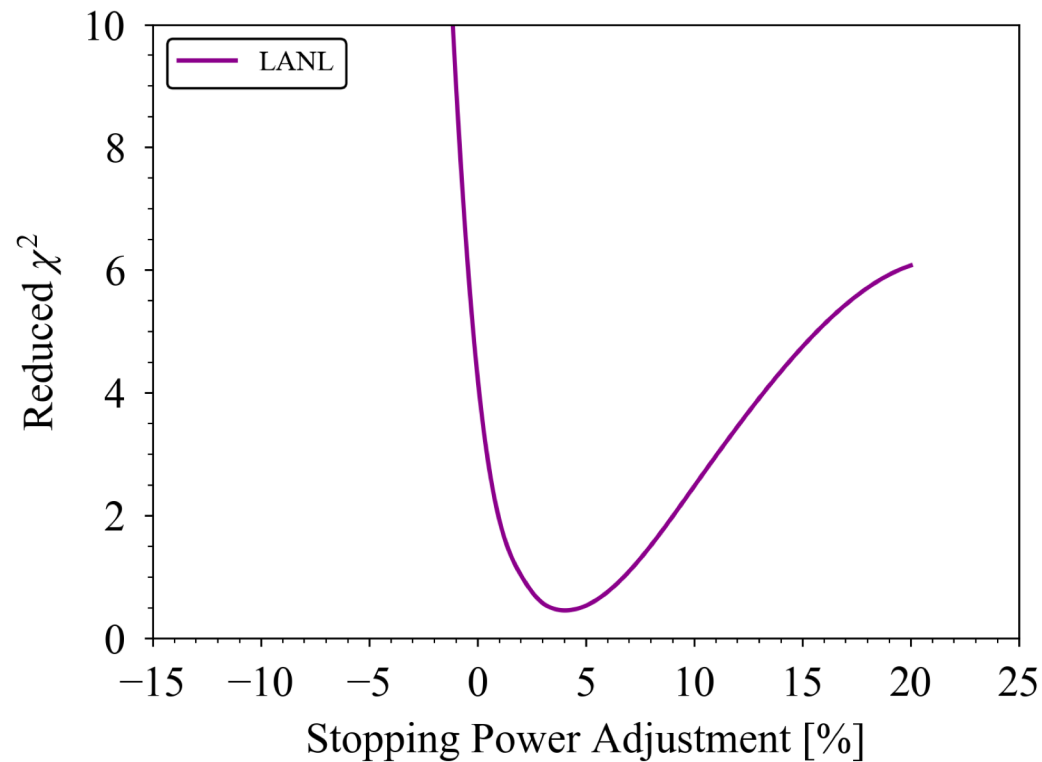


Proton Fluence - Before Variance Minimization

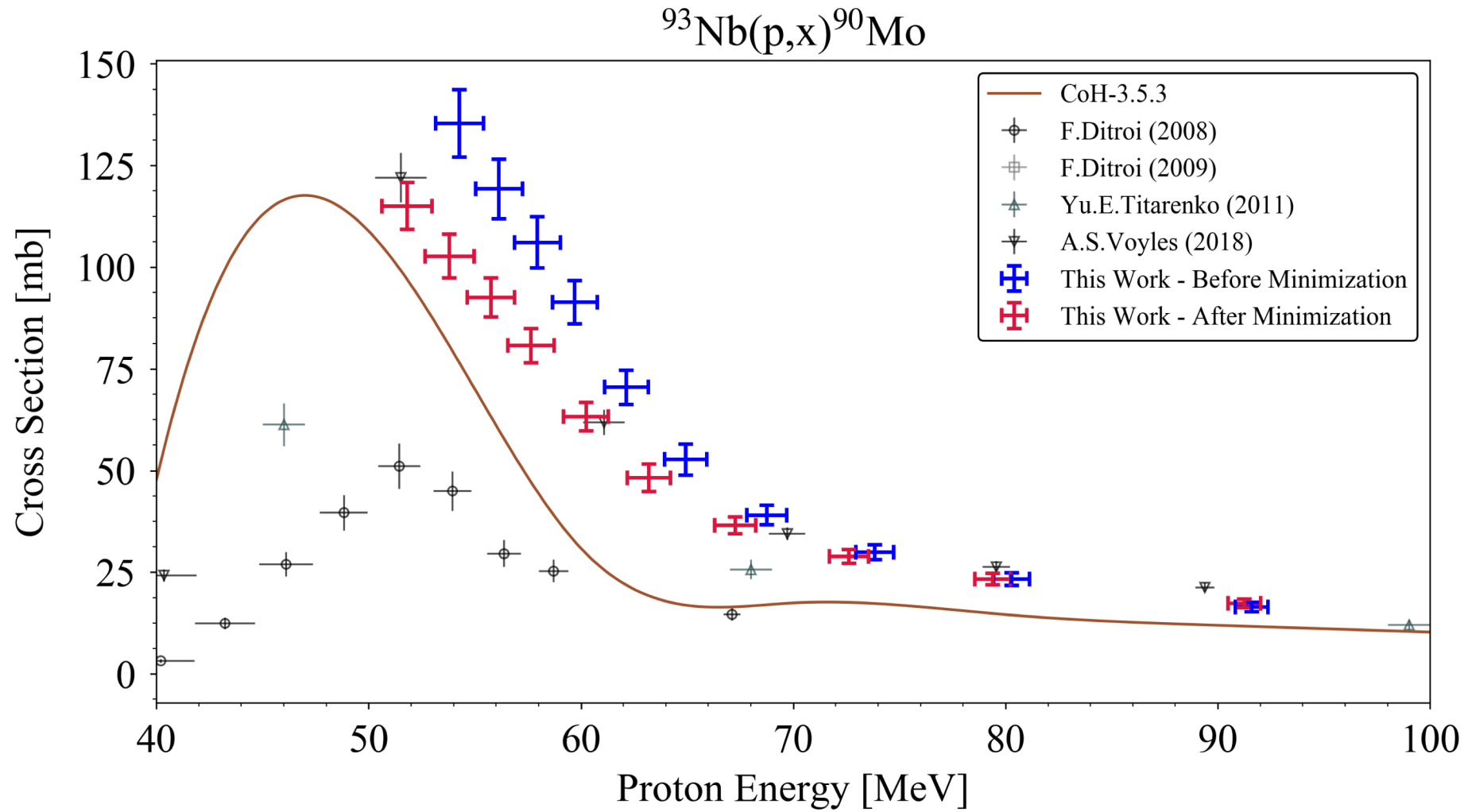
its worst compounding effects of:
 ized stopping power
 stematics in stack



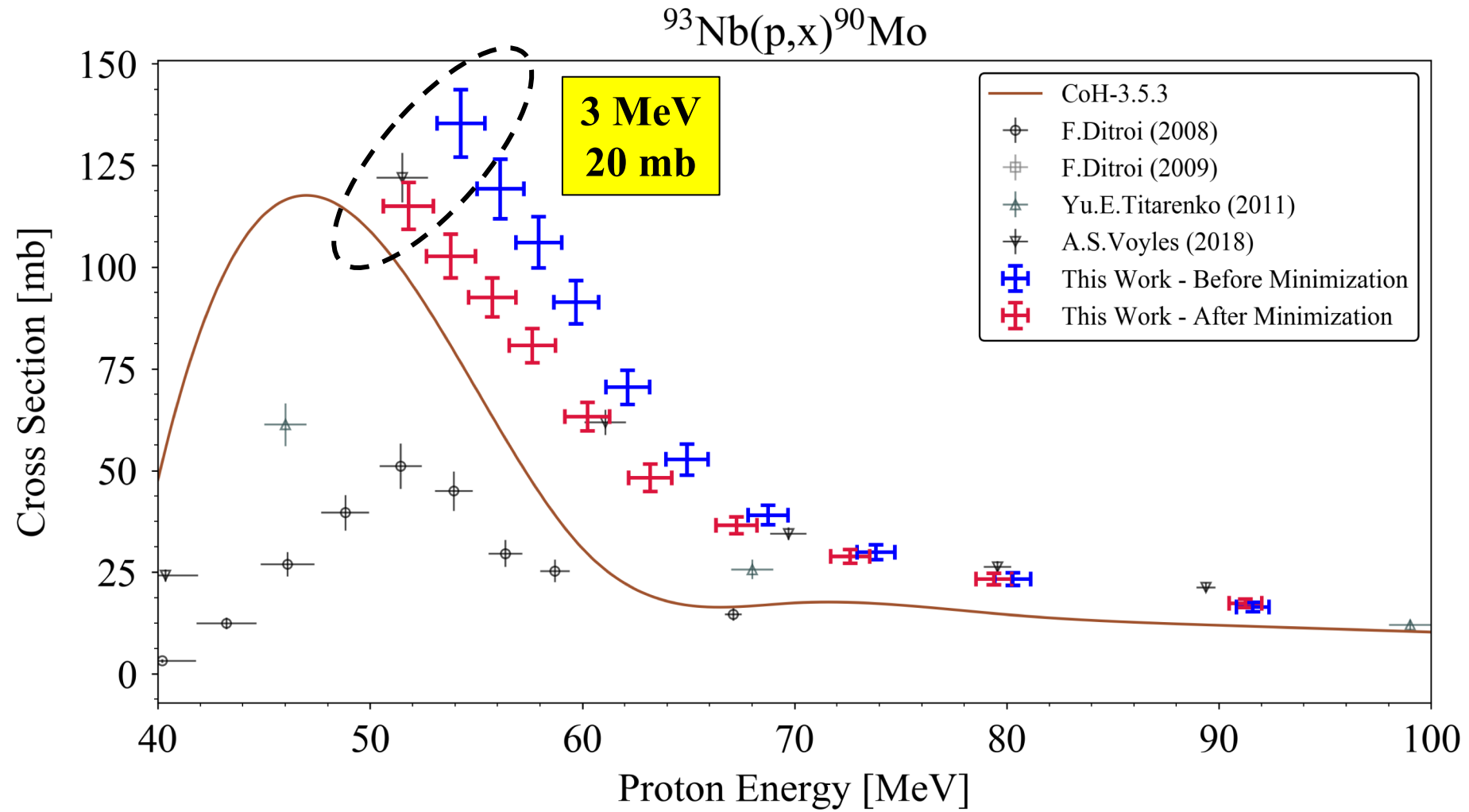
Variance Minimization Technique



Variance Minimization Impact



Variance Minimization Impact



Acknowledgements



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