**MTA Pion Production Target Studies**

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**ABSTRACT**

The MTA facility at Fermilab will host the muon catalyzed nuclear fusion experiment, requiring the production of a low energy-high intensity muon (μ-) source.  The experiment needs a dedicated secondary beamline to collect the muons from decayed pions generated by the interactions of 400 MeV proton beam on a fixed Tungsten target.  Data analysis software is used to analyze and compare simulations using different nuclear interaction models. Further studies are ongoing and experimental data will be compared with the theoretical predictions.

**INTRODUCTION**

The Standard Model of particle physics is the theory describing three out of four of the fundamental forces of nature, while also classifying all known fundamental and elementary particles. Leptons are one such class of elementary particles subject to certain intrinsic properties, and the muon (µ) belongs to this class. The µ- is a charged lepton with a charge equal to that of the electron and ~207 times heavier than the electron. It has a lifetime of ~2.2 microseconds, and decays most commonly into an electron plus a muon neutrino and an electron antineutrino1. The collision between high energy protons from the sun and the atomic nuclei of molecules in the Earth’s atmosphere can naturally produce negatively charged muons. However, high energy particle accelerators, such as Fermilab’s 400 MeV linear accelerator proton beam, can also be used to produce µ- indirectly. The process of producing muons from a particle accelerator is a two-step one2; A high energy proton beam bombards a fixed target, initially producing a flux of particles – including the π-. The π- is unstable and will then almost immediately decay into a μ-.

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Figure 1. From left to right, Feynman Diagrams of Pion and Muon Decay.

A low energy muon source is the aim and will be a benefit to many fields in High Energy Physics (HEP). The MeVTest Area (MTA) Facility at Fermilab is currently hosting the Muon Catalyzed Nuclear Fusion experiment, one of many different experiments that will be able to utilize a low-energy, high-intense muon source. This method of fusion involves replacing electrons with muons. In this way, the muon acts as a catalyst by pulling the nuclei closer together due to its increased mass and enabling the process of spontaneous fusion in hydrogen isotopes3 at significantly lower temperatures.

To selectively collect and transport the muons needed into a secondary beamline, studies of target material and design are crucial for maximum muon yield. It’s important to note that there are no other studies like this4, with a 400 MeV proton beam, so it’s safe to say we don’t yet know which model will be the best to simulate these complex interactions. The data we are collecting will help in streamlining many future experimental processes by studying the different theoretical models next to real data.

**EVENT GENERATORS**

This project initially uses simulated data to act as a reference for experimental output and in guiding decisions for the geometry of the target. Simulations are done with the utilization of event generators. The event simulation is a two-step process, generation and simulation. The generation step involves modeling the interactions that occur from the proton beam hitting a fixed target. Tungsten (W) was chosen as the target material in the muon beam studies due to the material’s heat tolerance and deformation properties5. The simulation step involves tracking the secondary particles.

In this case, simulations were done with GenieHad, an event simulator system developed for simulating the hadronic interactions between a proton beam and the nuclear matter of target systems. GenieHad interfaces different nuclear scattering generators and clusterization-evaporation models. Events being simulated under identical conditions using different nuclear interaction models makes it significantly easier for us to compare experimental results and pull conclusions from them. Primary hadronic interactions are simulated using the different nuclear interaction models, including GiBUU, INCL++, JAM, PHSD, and UrQMD, and are compared with GEANT4 using Shielding and INCL++ physics lists. Secondary particles are tracked using the GEANT4 toolkit, to study their momentum and angular distribution and to track their origin and yield.

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MXLRWe11r8kzkhCgpS5dXp2enzaPObL4RLL8Wbjw5PczHTLeH7WZwAHaI4CrnGA2TjOP4ScU7xKvwojs9X07S7S9tNTs0dbe53yOk0q/wjLNxkYJKj2PetLRfiDYaV8Z7+41DW5NS0u4tks01CSNRggK2SEVRtDbxkDuDz1rO8UeCvA9tDrOs2/jS3uWkWSazsLeSNnEh5CkgkkZP90YHfvWylU9pH2reyta+r63/4Ji4w5H7JLd3vbReRoP4N8C+AfDGnXPj23u9R1G/Xd5EMjDYcAsAFZRhdwySeT09KyviR4F0HT/C2neKvBzSDTrtlV4XYsFDAlWBbkcggg55IrptZufCPxW8M6TNfeJrXQtRskxIlw6jBYLvXDFdwyowQaw/iX4n0G28EaZ4M8MXw1CO1ZWmuFIZcKDgbhwSS2eOmMVNKVV1I3b5ru66W/IqrGmoSsly2Vn1udB4s8JfC7wVqNrLrVjd7LxQkdpDLKyrg/NKTuDfxDjPbgHmuc8bfC2ysviBoemeH3aGz1okBHYv5OzG8gnkjacgHvnmnfHfWtL1jUdGbSNRtb5Y4Zd5tplkC5K4ztJx0rd8feNtIsfGfgzVrC/tdQisTL9pFpOshRWCKc7SecFiAeuKmk66UJJttqW/lsOp7FucWkknHbz3JRovwx8OeO9M0BYLyPWoJ7eSO7EjuvnblZEfnGW4zhcYPUVj/ABMg0i6+OFhD4keZNNa0TzjArM7HD7VAUE8ttHA79utbGtWXgG68cQeOJfF9vhXhnNlBIjO8qbdhxnco+UZBX15FMvvFfhqD4+W+pXV9aXFkdOEMV3G6yxwyknBLDIHGRntu54qKblzKS5m+V39fIuajy8rslzL7vMn0vwD4F8T/AGmxs/CuvaPIkRaO+u45o1fnGVLMVJ5BwQP0OOb+Gnw/0LXNK8RJ4lhPnafP5IuElZfJAB3EAHB6Z5Br0fSvEWj2HiC6uNR+ItlqEN0XNvaGWFIrdSQcFgeSAMDJHBPBNcV4D8Q6Naab46F3qtnAbq5me3Es6qZgQ+CoJ+bqOnrSjUrck0m+lt+/mNwo88bpde3byKvh6y+F3iXxxb6TpmjXH2eW3lUG4nlTfKpBUjD9CoY846Diqfg74ZWlz8T9b0rXYDNpmkhiwMjLuDHMWSpB+7luvavNdI1OfRtas9StTia0mWVecZ2nOD7HofrX0d4/8QWGmfDa+8QaZtS4122igilB2s4dTg565VGc/hXRiPa0ZKEG3zab7O/+RhQ9nVi5zSXLrturf5nzjq72UmtXr6TF5ViZ3+zISTtjydvJ56Y617zBodl4h+Aei2Op6zb6NAQj/arjbtBDNheWUc/WvnqvdrIeHfFHwV0jQLzxXpmkzxhXfzpoy6FWbgoXU962xqajCz2e+5lhGm53W622JPiraXVp8ItNstJcarplu0Zn1EzB2IHCnjqCSOcnHA75qhYfDzwt4X8Iaff+LdJ1PWtQvlVzb2auTDkA7cIy9ARkk8npUfiTXPDfhD4Ty+ENE1qPW7u6yDJCQyLlgWbKkhRxwMk5P410mm+OrPxP4Q077B41tvC+p28apdLcxQsHYAA8S4yOMgqe/Ptwr2sKSUb25nrqr+el2dn7qVRuVr2Wmjt+hwXxC8AaH4fvdE1XT5bm20HVJEWdJA3mWwOCSAwLfdycEEgg/Sus0jwh8PNZ1CPT7Pwjr5jlU7NUliuEgPGfvFhjPbK4rL8U+KNNtvFPhZdV8V/8JRZ2ty097sgh8qI4ARgI156sSMt09+e6fxJoy+Kk1Z/iLZ/2a+1U0tJIdoYjblmzuxn5ucY9cU6k63s4pt3s9de+nTf1FThS9pJ2VrrTT/Pb0PNPCXw+0hvjFq/hnWImv7Kzt3eLfIyMeYypJQjna/09q6HRfBnwx1nWtQ8LWUF7NqdmjmS7aV15DbW287SVJHVcfXmotC8Q6NF+0LrupS6tYpYy2eyO6a4QROdsPAcnB+6e/Y1j/DnWdLsvjTr99e6jaW9pN9q8u4mnVI3zMpGGJwcjkVpN1pJyu1aKenciCpRajZO8mvkbeheCvhnq+q33hW0jvbjVbGNvNvXkdcsrbW2jO3Kkjgrj681F8F7FtMk8c2Ejb2tTHCzAYyV89c/pWT8OdZ0uy+NOv317qNpb2k32ry7iadUjfMykYYnByORWn8O/EGj2Ou/ECW91Wyt47u5LW7S3CqJhun5TJ+b7w6eoqaqqKE4XbVovXvcdJ03OErJayX4GFong7Q7z4G6n4huLMvqkDv5c/muNuGUD5Qdp6nqK2dP8F+BbT4W6T4n8SW1wh275zBK5a5YlgExnA7dNvTr1qn4f1vSoP2etW02bUrSO+keTZatMolbLLjC5yaPEGt6VP+z1pOmw6laSX0bx77VZlMq4Zs5XORWknVlLlu/j/CxEVTUb2Xw/jch8eeDPC7/Dyy8X+C4ZbW2kcLJFJIzZUkqc7iSGDDHBx1rc/wCFeeD/AAfotgPFGkaprmo3YzL9iSVhCcDPCMuFGe+SeePTFuNa0s/s12mljUbQ6gJiTaCdfNH+ks3KZz056dK7s+ObLxZolldaP47tfC92q/6TBdRQvlsDIxLg8HoQcGs5yrqPLd2Umr67dNUmzSEaLlzWV2k7afPR6EfhbwPZeD/iok+jPJ/Z+paRM8UchJaNlkhyMnnGGXGeetem15x4b1aG/wDibbW8PilvETW+kTmSURxKkbNLD90xqAchR3OMV6PXmYlzclzu7sehh1FRfJtcKKKK5TpCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACvmC/+EfjibUrmWPQyyPM7KftUPIJP+3X0/RXVh8VPDt8iWvc5sRhoV7cz2Plj/hT/jr/AKATf+BUP/xdH/Cn/HX/AEAm/wDAqH/4uvqeiuz+1a3Zfj/mcv8AZtHu/wAP8j5Y/wCFP+Ov+gE3/gVD/wDF0f8ACn/HX/QCb/wKh/8Ai6+p6KP7Vrdl+P8AmH9m0e7/AA/yPlj/AIU/46/6ATf+BUP/AMXR/wAKf8df9AJv/AqH/wCLr6noo/tWt2X4/wCYf2bR7v8AD/I+WP8AhT/jr/oBN/4FQ/8AxdH/AAp/x1/0Am/8Cof/AIuvqeij+1a3Zfj/AJh/ZtHu/wAP8j5Y/wCFP+Ov+gE3/gVD/wDF0f8ACn/HX/QCb/wKh/8Ai6+p6KP7Vrdl+P8AmH9m0e7/AA/yPlj/AIU/46/6ATf+BUP/AMXR/wAKf8df9AJv/AqH/wCLr6noo/tWt2X4/wCYf2bR7v8AD/I+WV+D/jgON+gMVzyBdwAkfXfXaePdE8e+NLLTrG38H/2XZWAO2BdQhkDHAA7rjABA+pr3Kis5ZjUlJScVdbb/AOZccBTjFxUnZ+n+R8sf8Kf8df8AQCb/AMCof/i6P+FP+Ov+gE3/AIFQ/wDxdfU9Faf2rW7L8f8AMj+zaPd/h/kfLH/Cn/HX/QCb/wACof8A4uj/AIU/46/6ATf+BUP/AMXX1PRR/atbsvx/zD+zaPd/h/kfLH/Cn/HX/QCb/wACof8A4uj/AIU/46/6ATf+BUP/AMXX1PRR/atbsvx/zD+zaPd/h/kfLH/Cn/HX/QCb/wACof8A4uj/AIU/46/6ATf+BUP/AMXX1PRR/atbsvx/zD+zaPd/h/kfLH/Cn/HX/QCb/wACof8A4uj/AIU/46/6ATf+BUP/AMXX1PRR/atbsvx/zD+zaPd/h/kfLH/Cn/HX/QCb/wACof8A4uj/AIU/46/6ATf+BUP/AMXX1PRR/atbsvx/zD+zaPd/h/kfLH/Cn/HX/QCb/wACof8A4uj/AIU/46/6ATf+BUP/AMXX1PRR/atbsvx/zD+zaPd/h/keK/B7wF4l8L+Mbi913TDa272LxK5mjfLF0IGFYnopr2qiiuCvXlXnzyO2jRjRhyRCiiisDYKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAP/9k=)

**Figure 2. Step by step display of proton beam on tungsten target and results.**

**SIMULATIONS**

Once simulations were generated, data analysis for my project was performed on Jas3, an AIDA (Abstract Interfaces for Data Analysis) compliant, interactive data analysis framework6. I developed a Java-based macro to plot relevant graphs for the final analysis. The Macro pulls specified data from AIDA files and creates comparable histograms and scatter plots. The data can be overlayed or set side-by-side. The momentum distribution and the origin were collected for protons, neutrons, gammas, electrons, pions, and muons, both on the walls of the production chamber and at the entrance to the secondary beamline. The Monte Carlo numbering scheme, PDG codes, were used to facilitate interfacing between the event generators and the data analysis package7.

The geometry description of the primary and secondary beamlines, the production chamber, and the target are all an essential part of the simulation studies. GDML (an XML-based geometry description language8) has been chosen for this because it is compatible both with ROOT and GEANT4. Target geometry is displayed using the ROOT data analysis software.

A picture containing device, gauge

Description automatically generated

**Figure 3. Primary 400 MeV proton beamline, production chamber, and secondary beamline with solenoid attached. Image generated in ROOT.**

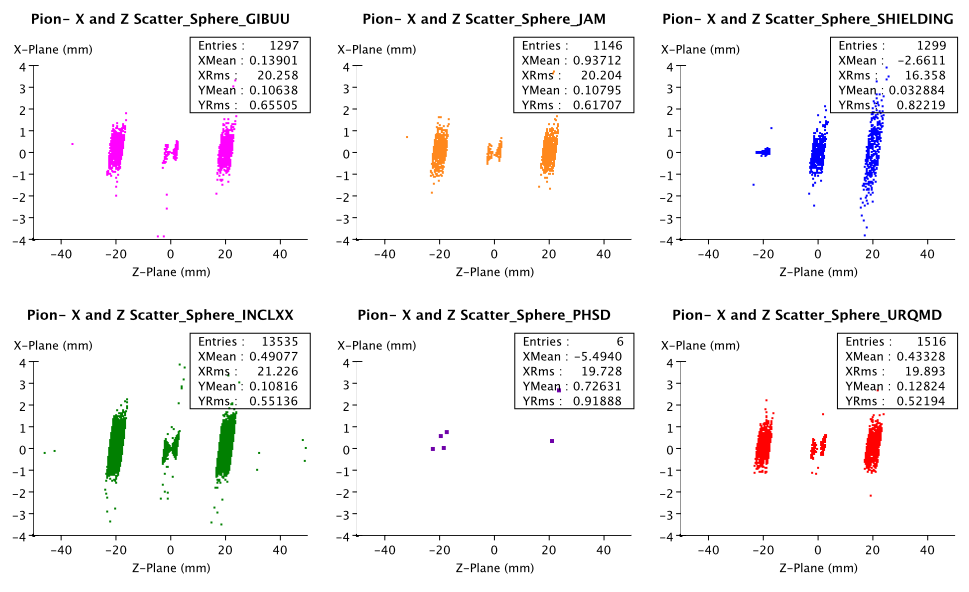
**STUDIES**

In this project, we focused on the momentum distribution and yield of the muons and pions at the entrance of the secondary beamline and on the walls of the production chamber. Preliminary studies with early concepts of target geometry used three thin tungsten target slices (3.3mm) oriented towards the solenoid. Those preliminary studies garnered results that guided the decision for a different target configuration. New simulations were conducted on a tungsten target with dimensions of 8 cm in length, 1.5 cm wide, and 9 cm thick. Data Analysis is ongoing.

![Chart, histogram

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RD6RXhpZgAATU0AKgAAAAgABAE7AAIAAAAQAAAISodpAAQAAAABAAAIWpydAAEAAAAgAAAQ0uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAENyYWlnIENhdmFuYXVnaAAABZADAAIAAAAUAAAQqJAEAAIAAAAUAAAQvJKRAAIAAAADNTIAAJKSAAIAAAADNTIAAOocAAcAAAgMAAAInAAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**Figure 4.** **Momentum distribution of produced π- scored on the wall of the vacuum chamber for five different models. Preliminary studies using three thin tungsten target slices (3.3mm). GEANT4 [SHIELDING] π- are produced from 4,690,630 POT, INCL++ π- are produced from 23,264,237 POT, UrQMD π- are produced from 15,623,779 POT, GIBUU π- are produced from 2,830,990 POT, and JAM π- are produced from 4,557,292 POT. Graph not normalized.**



**Figure 5. Tracked origin (top-view) of produced π- scored on the wall of the vacuum chamber for three different models. Preliminary studies using three thin tungsten target slices (3.3mm). GEANT4 [SHIELDING] π- are produced from 4,690,630 POT, GIBUU π- are produced from 2,830,990 POT, and JAM π- are produced from 4,557,292 POT. Graph not normalized.**

The remaining plots show a tungsten target with dimensions of 8 cm in length, 1.5 cm wide, and 9 cm thick.

**![A picture containing chart

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**Figure 6. Comparable histograms created in jas3, comparing total π- production with two different physics lists.**



**Figure 7. Momentum distribution and origin of total produced π- from POT for three different models. GEANT4 π- are produced from 7,000,000 POT, INCL++ π- are produced from 8,128,044 POT, and UrQMD π- are produced from 6,358,551 POT. Histograms not Normalized.**

Diagram

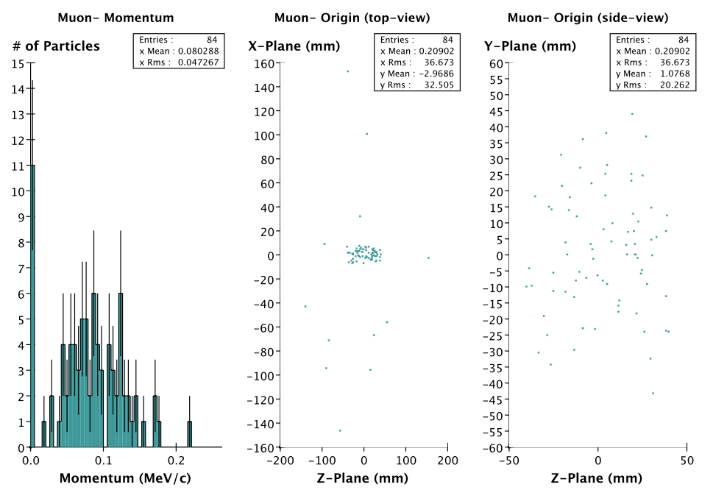
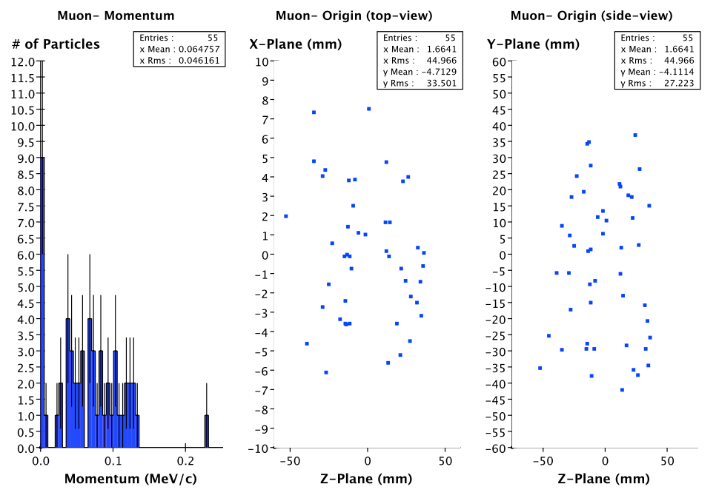
Description automatically generated with medium confidence

**Figure 8. From left to right: tracked origin (top-view) of total produced π- and tracked origin (side-view) of total produced π-. Comparisons between three different models are shown. From top to bottom: GEANT4 using shielding physics, INCL++, and UrQMD.**

Diagram, schematic

Description automatically generated

**Figure 9. From left to right: π- momentum distribution, tracked origin (top-view) of produced π-, and tracked origin (side-view) of produced π-, all at the entrance to the secondary beamline. Comparisons between three different models are shown: GEANT4 using shielding physics lists, INCL++, and UrQMD. Graph not normalized.**



**Figure 10. (left) Total μ- Produced from proton on target (POT) for INCL++.**

**Figure 11. (right) Total μ- Produced from POT for UrQMD.**

**DISCUSSION**

The muon catalyzed nuclear fusion experiment is currently in progress and will eventually be producing experimental data. Aside from being able to maximize muon yield with an optimized target geometry, being able to compare the real data with these simulations will be incredibly valuable. The studies being done at this energy level are new and narrowing down which model will most accurately describe the full picture of what’s happening will be beneficial for theorists, experimentalists, and for the future of low-energy muon experiments.

The studies done in this project will ultimately help guide the decision regarding the best target for optimized pion production and muon beamline in the MTA facility.

**Acknowledgments**

I would like to give so many thanks to my mentor, Anna Mazzacane, for her endless efforts and encouragement throughout this internship. She made all the difference. I would also like to thank Carol Johnstone and the entire CCI team for making this the most valuable and enriching remote experience I could have had. Thank you so much!

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