

The background of the slide is filled with a repeating pattern of small Feynman diagrams. Each diagram consists of a central vertex from which three lines emerge: one straight line with an arrow pointing away, one wavy line, and one straight line with an arrow pointing towards the vertex. The lines are light gray, and the overall pattern is dense and uniform across the slide.

$e4\nu$

First Collaboration meeting

March 12th 2025

The background of the slide is a repeating pattern of Feynman diagrams. Each diagram consists of a central vertex from which three lines emerge. One line is a wavy line, and the other two are straight lines with arrows pointing away from the vertex. The diagrams are arranged in a grid-like pattern across the entire slide.

Welcome to the first in person meeting!

So good to see you all!

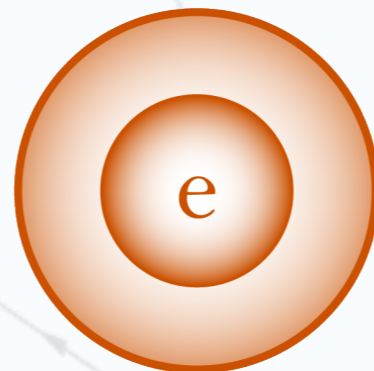
The background of the slide is a repeating pattern of faint Feynman diagrams. Each diagram shows a vertex where a fermion line (solid line with an arrow) and a photon line (wavy line) meet, with another fermion line extending from the vertex. The diagrams are arranged in a grid-like pattern across the entire slide.

$e4\nu$ Objective (as we know)

leverage the invaluable E2A and RGM data to constrain models used for accelerator based neutrino oscillation experiments.

$e4\nu$ Methods

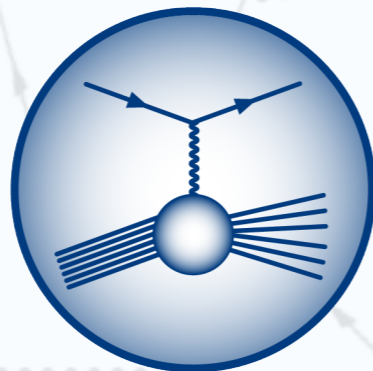
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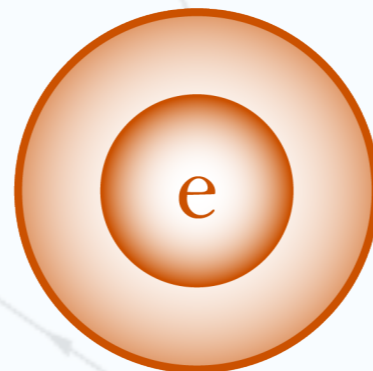
Electron
Scattering Data

$e4\nu$ Methods

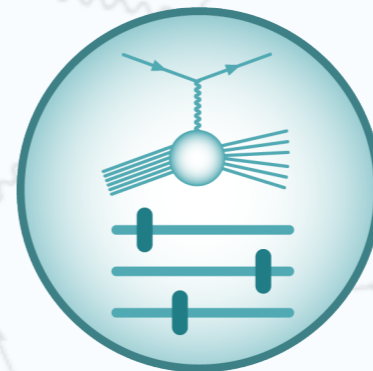
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Model Unification



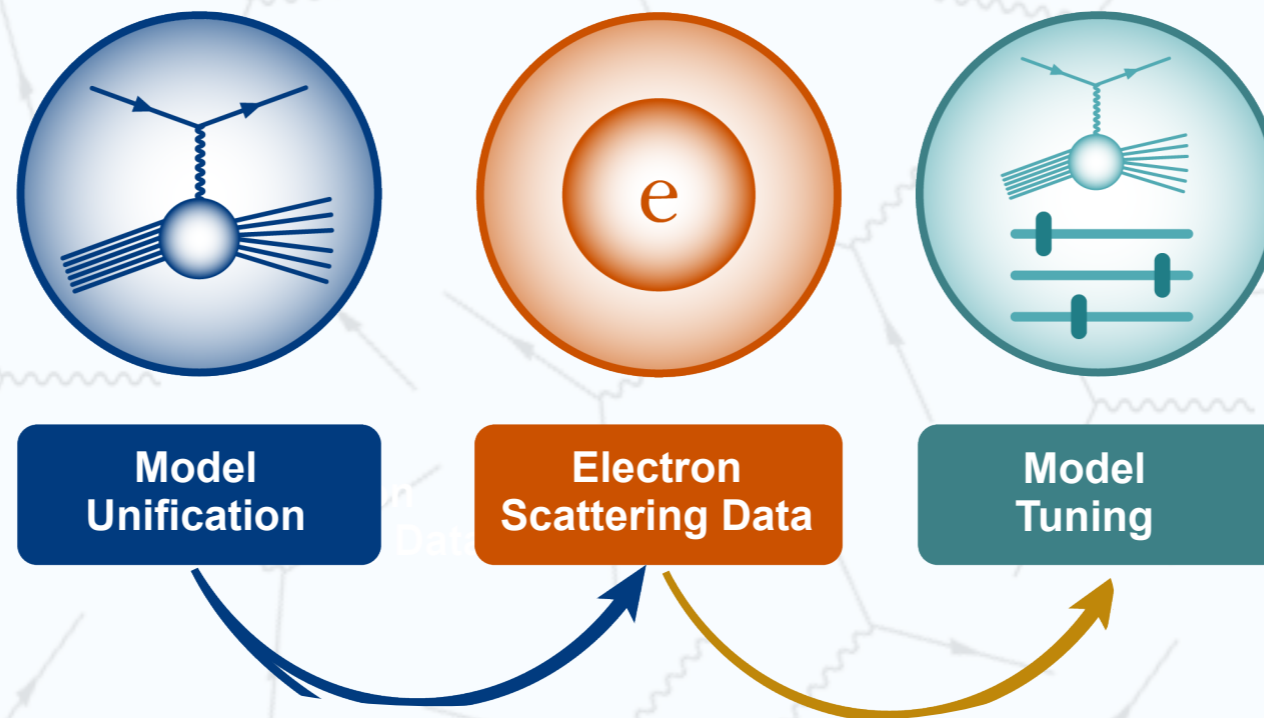
Electron Scattering Data



Model Tuning

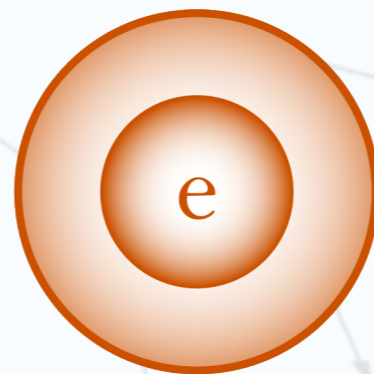
$e4\nu$ Methods

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$e4V$ So far

There are many electron scattering invaluable analyses
Only a few published



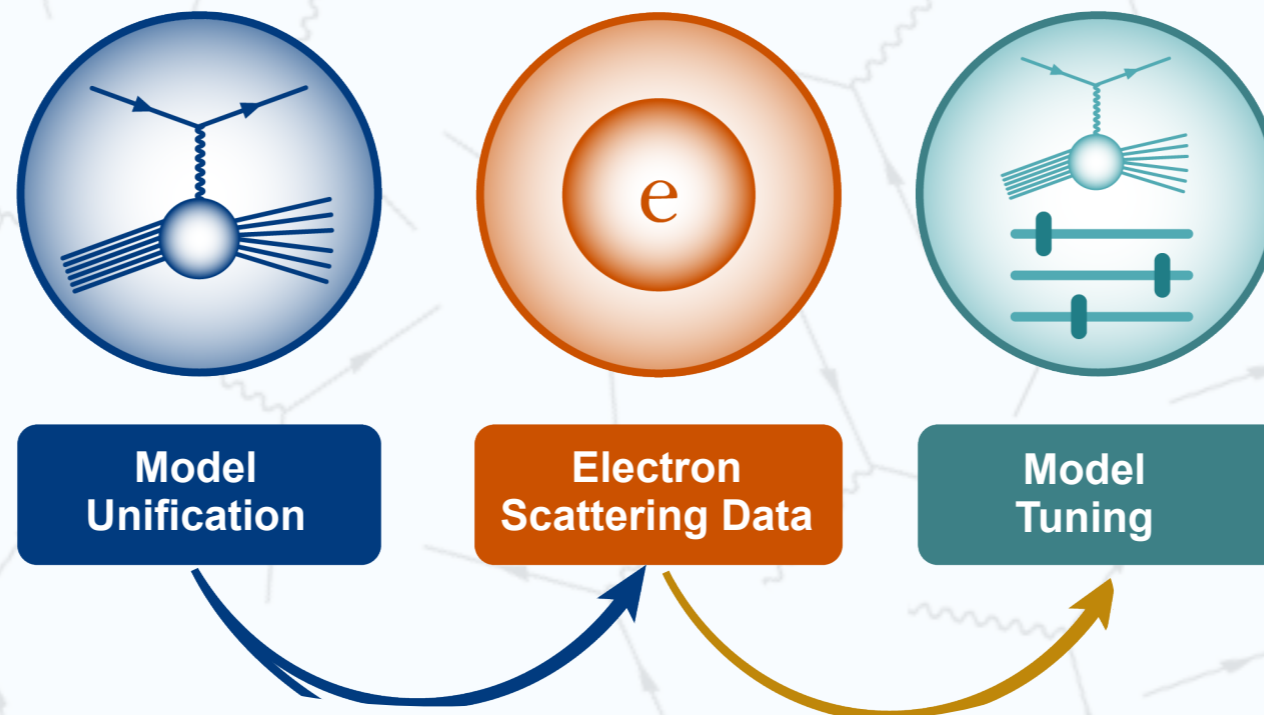
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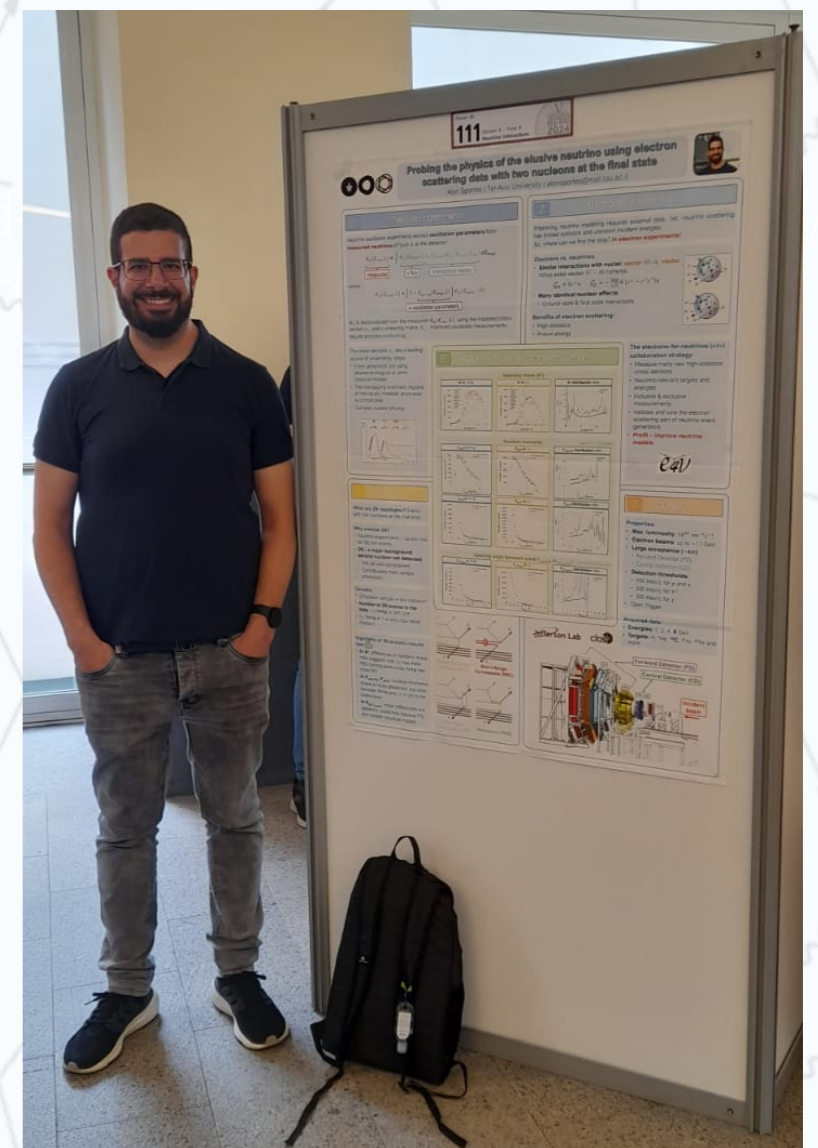
Several model improvements including, SuSA for electrons,
and radiative effects ([Volume 310](#), May 2025, 109509)

The beginning of tuning efforts



$e4\nu$ to be proud of

We are frequently invited to give talk in various conferences



E4ν to be proud of

- We are frequently invited to give talk in various conferences

Of both the neutrino and nuclear community

- There's an electron session in each important neutrino conference

E4nu representatives are in the SOC of almost all of them

- We are getting grants

- Main authors in major white papers, and EU strategy paper

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$e4V$ Main feedback

When will it be published?

[blob:https://web.whatsapp.com/3cac6ec2-2c72-496f-804d-b26352777c86](https://web.whatsapp.com/3cac6ec2-2c72-496f-804d-b26352777c86) [blob:https://web.whatsapp.com/3cac6ec2-2c72-496f-804d-b26352777c86](https://web.whatsapp.com/3cac6ec2-2c72-496f-804d-b26352777c86)

What is it good for?

Welcome to the first in person meeting!



Welcome to the first in person meeting!

When will it be published?

Let's get these analyses rolling!

Set a plan with manageable milestones and start achieving those

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Methods

Let's meet more often (!) Rethink our routine

And the way we share our work

This week

Wed	Thu	Fri	Sat	Sun
Welcome to JLab	FSI morning	Look into the Future	Hands-on work	
New from CLAS	Let's get these analyses rolling	Tour & Tutorials		
Dinner				

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Important comments

Friday's tour to Hall B

all people which are interested in the tour and which do not have a radcon badge from Jlab should sent me an email so that I can sent them the registration link

Dinner today

Let us know if your interested in the break and if you have special dietary requests

Enlist in the indico website, in case you haven't done so

The background of the slide is filled with a repeating pattern of small Feynman diagrams. Each diagram shows a wavy line (representing a photon or gluon) interacting with two fermion lines (representing electrons or quarks). The fermion lines have arrows indicating their direction of flow. The wavy lines connect the fermion lines at various angles, creating a complex, interconnected network of lines across the entire page.

e_4V

First Collaboration meeting

Here we go!