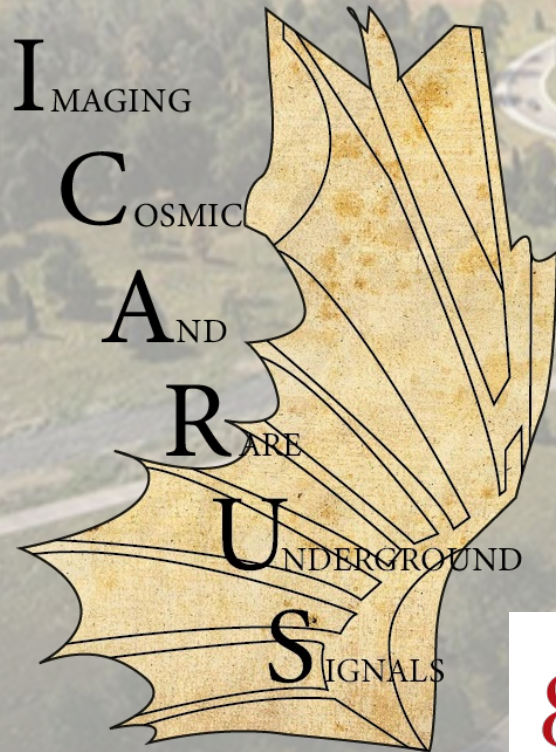


Report from a Seconded Researcher



Maria Artero Pons
MidTerm Review of SENSE



UNIVERSITÀ
DEGLI STUDI
DI PADOVA



Dipartimento
di Fisica
e Astronomia
Galileo Galilei



H2020-MSCA-RISE-2018
G.A. 822185

Presentation

- I joined the ICARUS Neutrino Group based in Padova in January 2021 to pursue my PhD

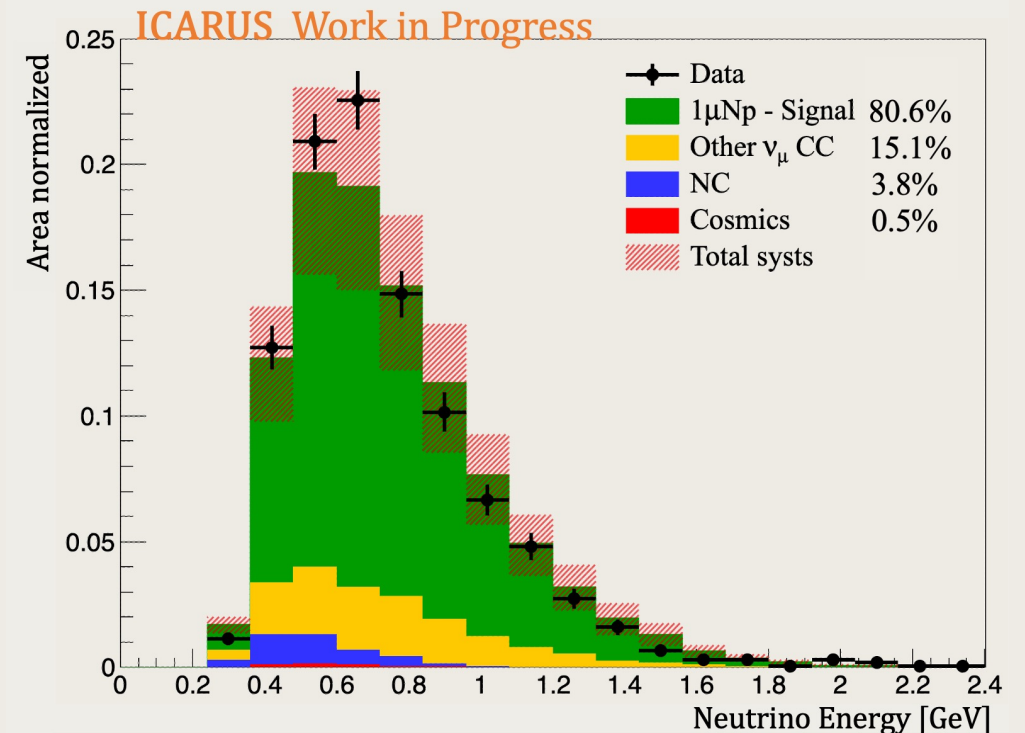
Under the Grant Agreement no.858199 of the European Union Horizon 2020 Programme, Marie Skłodowska-Curie Actions (MSCA), Innovative Training Networks as a part of the INTENSE project



- Title: *Study of the reconstruction of ν_μ CC QE events from the Booster Neutrino Beam with the ICARUS detector*
- Successfully defended the thesis in April 2024!

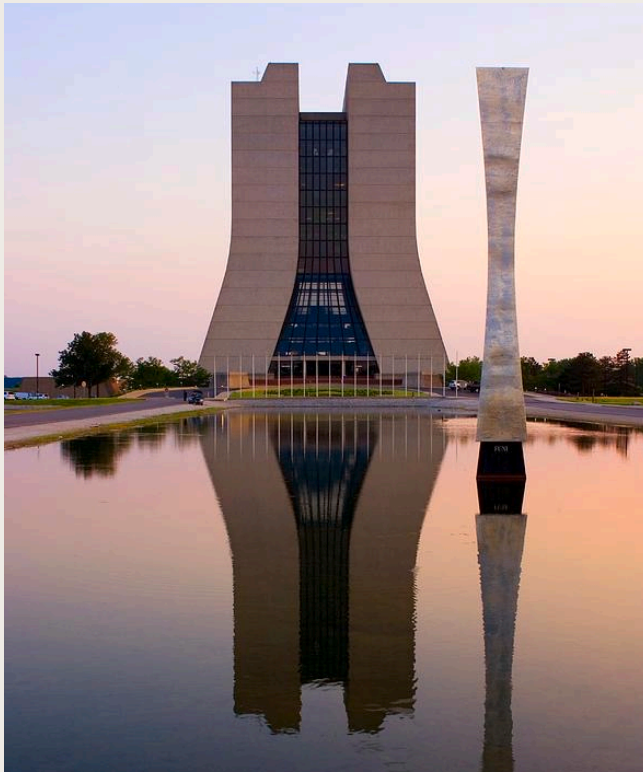
PhD research

- During this period I was firstly involved in Calibration activities, but afterwards I mainly devoted my time to developed an automatic selection to identify a simple topology of ν_{μ} CC QE interactions ($1\mu 1p$)
- My thesis served as a benchmark to prove the effectiveness of the selection
- Further worked allowed to generalized the selection ($1\mu Np$) leading to preliminary results such as the ones presented in the Neutrino 2024 International Conference ([See here](#))



What's next?

- From January 2024 I am a PostDoc at the University of Padova still working on Neutrino Physics
- I will be Run Coordinator onsite at Fermilab, US from June – September 2025 (SENSE Secondments)



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Thank you!

