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Current affiliation:

Associate Professor at Universidad Complutense de Madrid.

Nuclear Physics Group.

Past affiliations:

Postdoc at **Ghent University** (Belgium): from 2015-2018

PhD student at **University of Seville** (Spain) from 2010 to 2014.

Future affiliation:

University of Seville (Spain) from September 2024.

Madrid, December 13, 2023

Main collaborators

Tania Franco Muñoz, Javier García Marcos, José M. Udías
(**Complutense University of Madrid**)

Alexis Nikolakopoulos, Vishvas Pandey (**Fermilab**)

Juan M. Franco Patiño, Guillermo D. Megías, Juan A. Caballero
(**University of Sevilla**)

J.E. Amaro, I. Ruiz-Simo (**University of Granada**)

Maria B. Barbaro (**Torino**)

T. William Donnelly (**MIT**)

Natalie Jachowicz (**Ghent University**)

Kajetan Niewczas (**Wroclaw University and Ghent**)

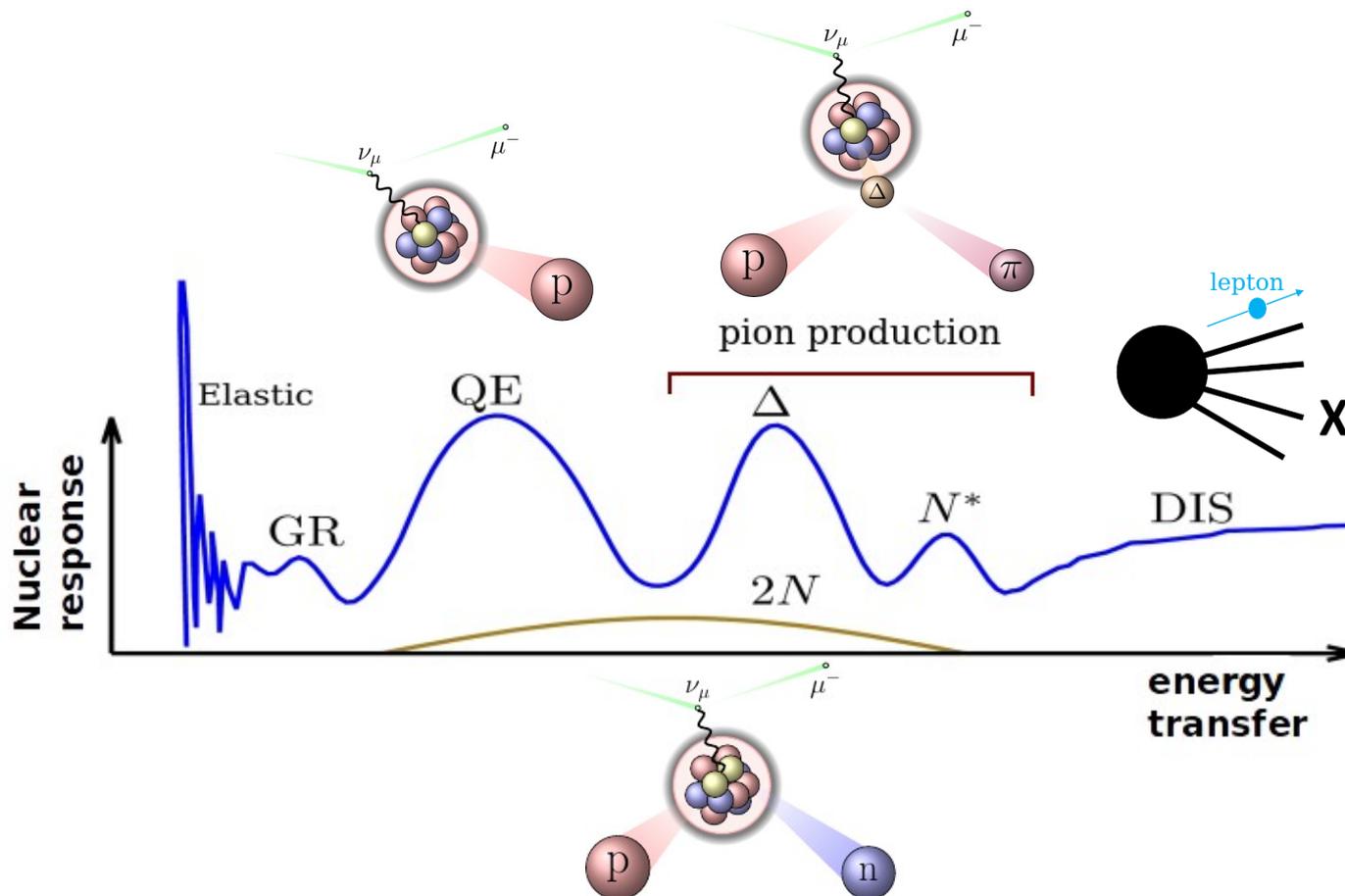
Stephen Dolan (**CERN**),

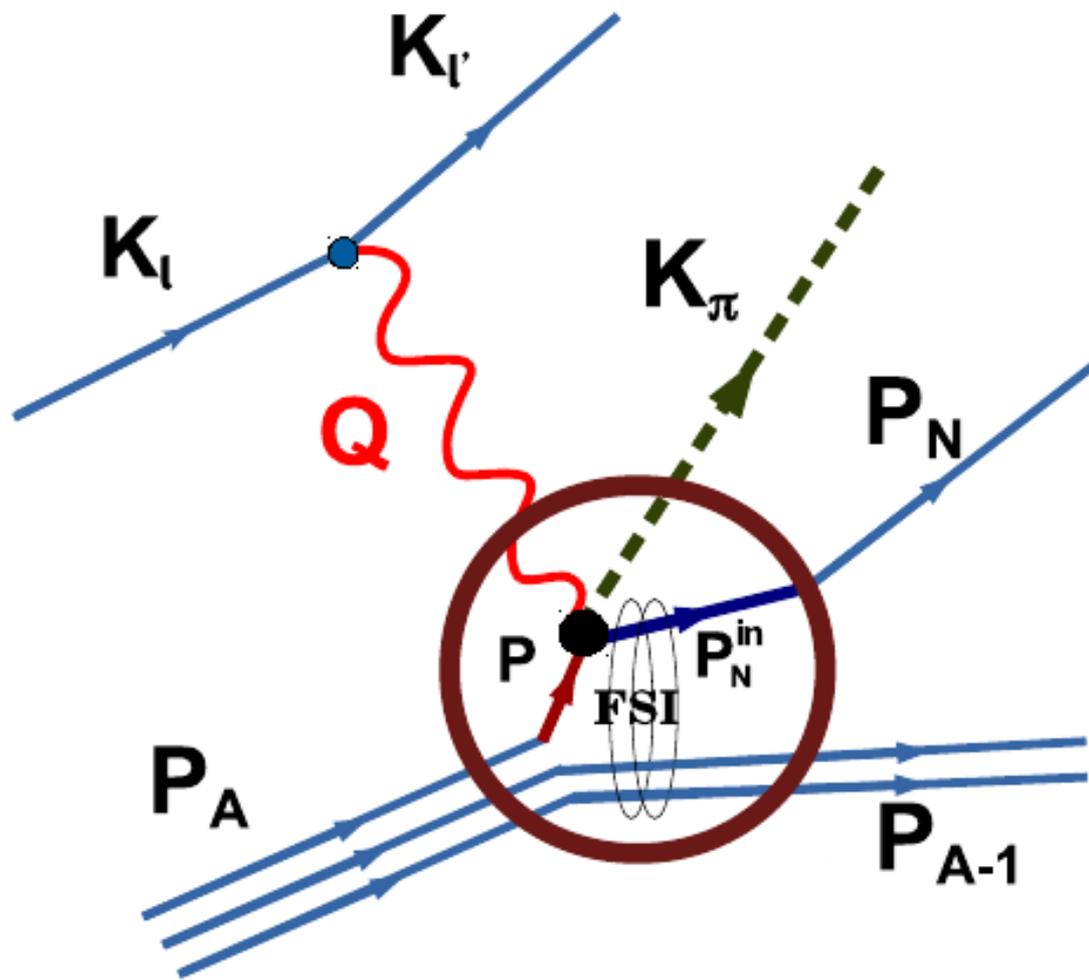
Federico Sánchez (**University of Geneva**)

Jake McKean, Mino Kabirnezhad (**Imperial College London**)

Main research line:

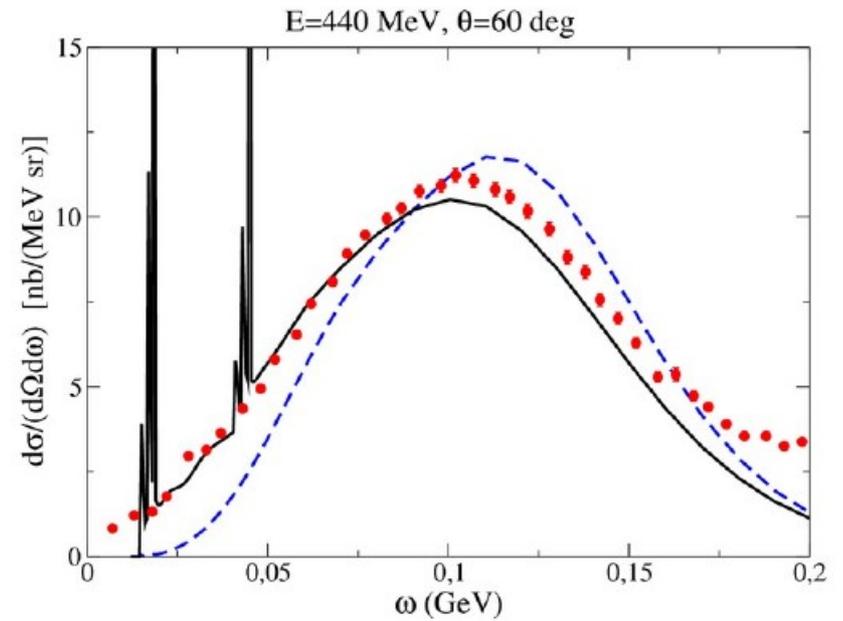
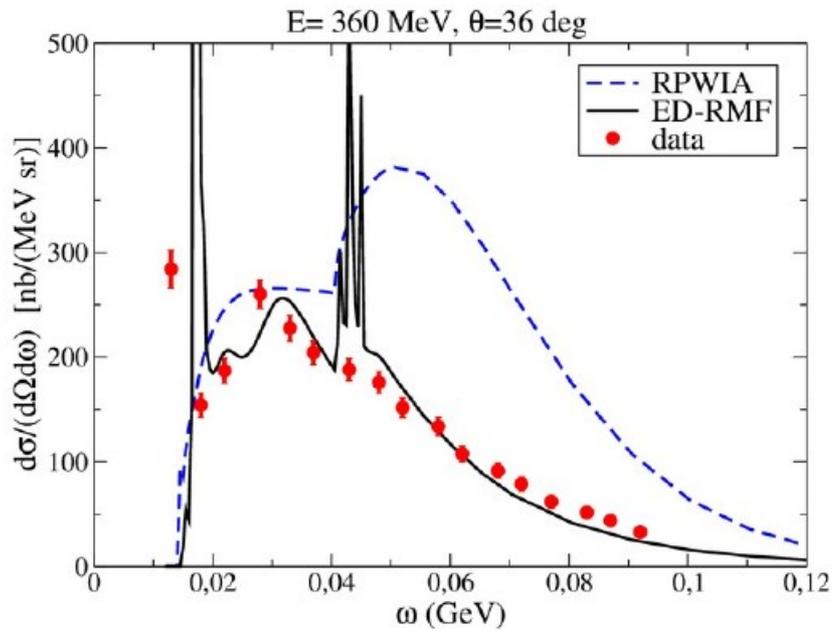
The nuclear response to electroweak probes (photons, electrons and neutrinos) in the intermediate energy regime (from 10's of MeV to a few GeV).





Inclusive $^{12}\text{C}(e,e')$ cross section.

RPWIA (distortion is neglected) and ED-RMF (full model).



Research Projects

1. New approach towards the implementation of neutrino interaction models in Monte Carlo event generators [PID2021-127098NA-I00].

Proyectos de Generación del conocimiento 2021, Ministerio de Ciencia e Innovación, Spain.

01/09/2022 a 31/08/2025. PI: RGJ.

2. Unravelling the properties of the most elusive particles of the Universe: Neutrinos and their interactions [PR65/19-22430].

Programa Jóvenes Doctores, Comunidad de Madrid y UCM.

01/07/2020 to 30/06/2023. PI: RGJ.

PhD students:

+ **Tania Franco Muñoz**. Started in 2020.

Relativistic two-body currents for one-nucleon knockout in electron-nucleus scattering

Effects of two-body currents in the one-particle one-hole electromagnetic responses within a relativistic mean-field model

+ **Javier García Marcos**. Started in 2022. (Joint PhD with Ghent University).

Towards a more complete description of nucleon distortion in lepton-induced single-pion production at low- Q^2