

INFN - CATANIA

Application for the CLAS membership

Mariangela Bondi

CLAS12 Collaboration meeting
March 10th, 2026



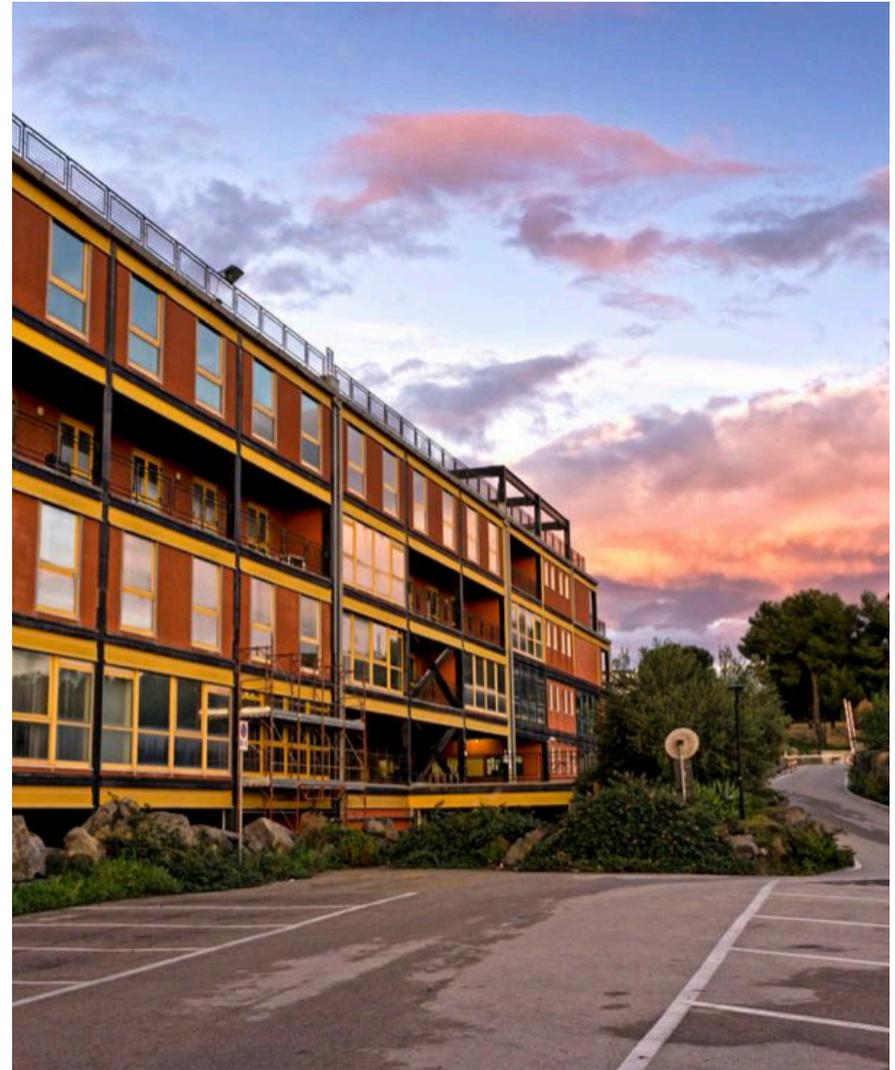
INFN - Istituto Nazionale di Fisica Nucleare



- INFN was set up on 1951 to take up the legacy of Enrico Fermi and his school, the “Via Panisperna boys”.
- INFN today:
 - 4 National Laboratory
 - 20 Sezioni
 - 3 National Center
 - 1 Consorzio Internazionale

INFN - Sezione di Catania

- INFN - Sezione di Catania was set up on 1970
- Strong tradition in nuclear physics
- This tradition dates back to 1955, with the installation of the first accelerator in Southern Italy, a 2 MV Van de Graaff accelerator. T
- This facility played a key role in the **formation of the local nuclear physics community**, which later led to the creation of the INFN section.



INFN Catania @ JLAB

- The Catania group involved in Jefferson Lab program includes two complementary components: experimental and theoretical group

Mariangela Bondi
INFN Technologist



Marco Filippini -
PhD student



Alessandro Piloni
Associated Professor
- University of Messina



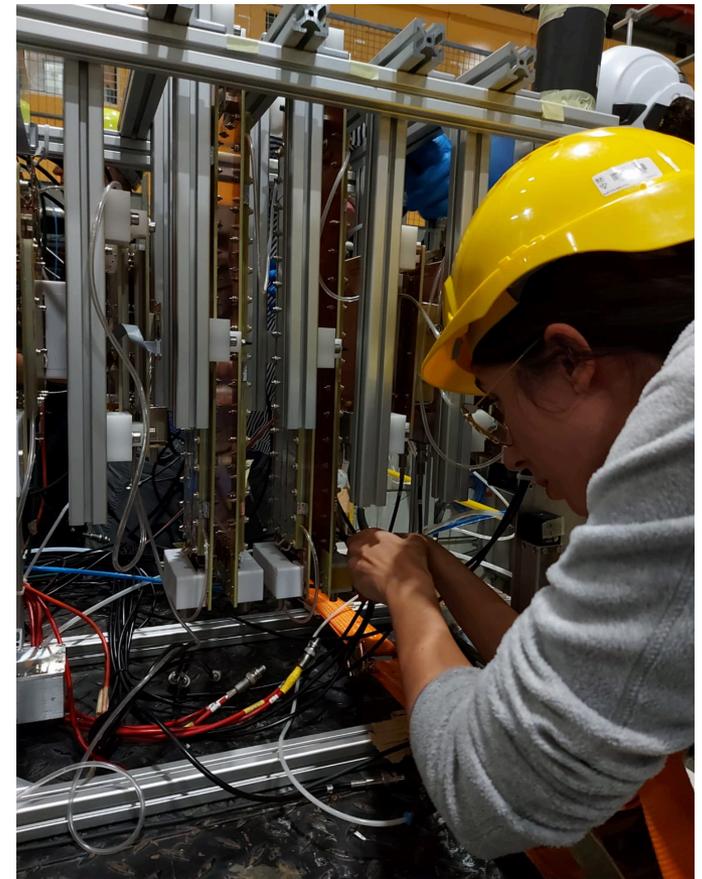
Giorgio Foti -
PhD student

Member application

- **Today:** Mariangela Bondi
- **Near Future:** Marco Filippini - PhD student (applying for CLAS12 term membership)
- **Future:** Graduate students, PhDs and Post Doc

My CLAS and related Bio;

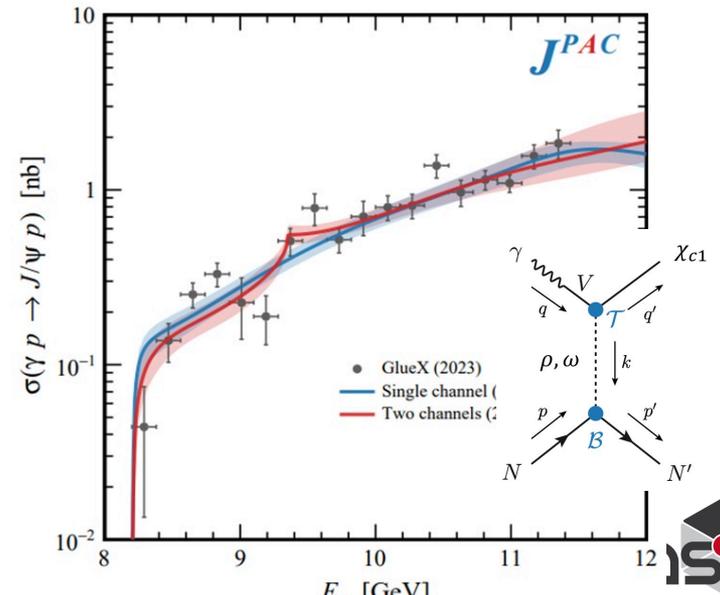
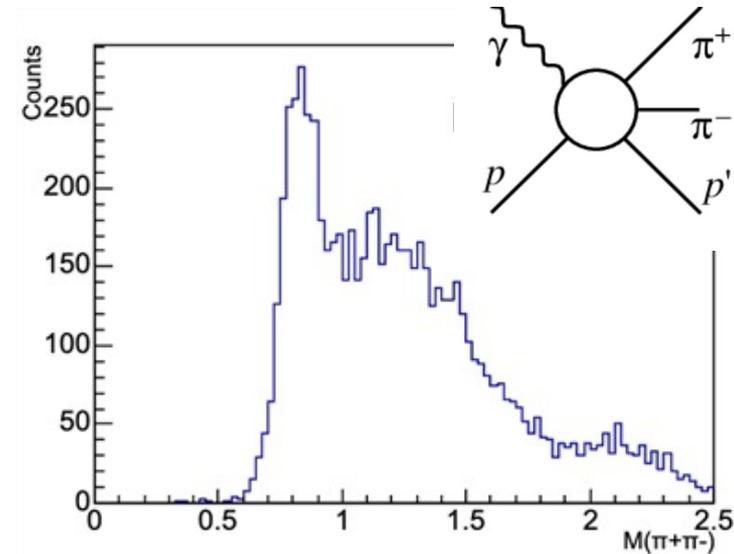
- CLAS12 term member since 2020
 - 2020 - 2022 part of INFN - Genova team
 - Working on CLAS12 upgrade - phase 1: simulation of the new tracker based on urwell
 - 2022 - now part of INFN -ROMA2 team
 - Contributing to μ RWELL R&D
 - Co-spokesperson of “Electro- and photo-production of muon pairs with muCLAS12: Double Deeply Virtual Compton Scattering, Timelike Compton Scattering, and J/psi production.



INFN - CATANIA contribution to CLAS12

■ Physics program:

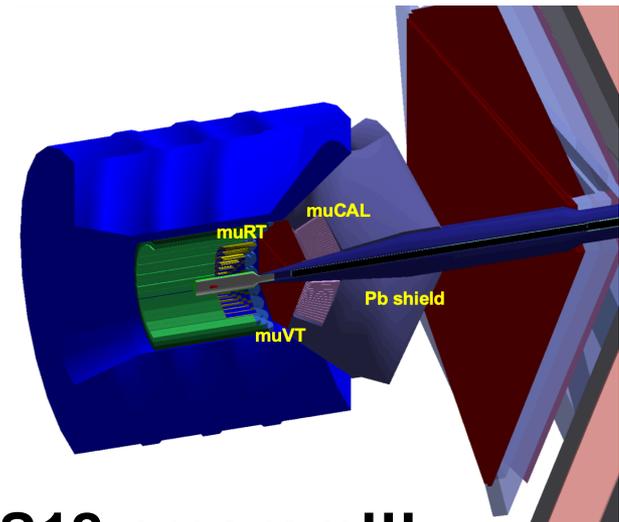
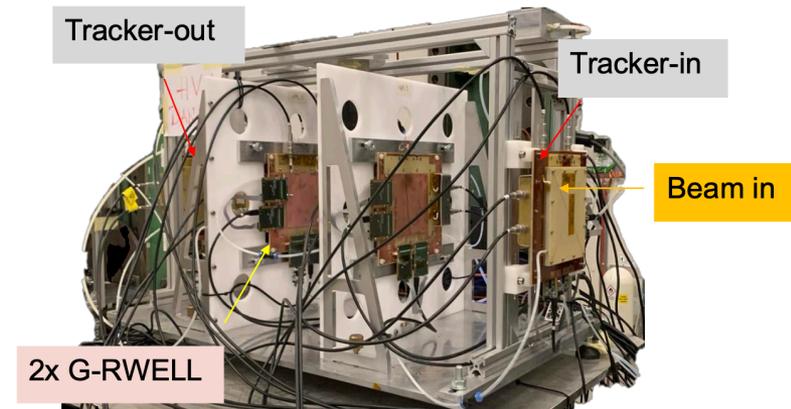
- Contribution to the muCLAS physics program
- Studies of meson spectroscopy in MESONeX-CLAS12 program: study of electro-production of resonances (ρ , f_2) decaying into 2 pions
- Feasibility studies for spectroscopy measurements in muCLAS (with A. Pilloni and M. Battaglieri)



INFN - CATANIA contribution to CLAS12

■ Detector:

- μ RWell detector R&D for large-area tracking (in collaboration with A. D'Angelo)
- Contribution to development of CLAS12 detector simulation
- Exploring a possible INFN contribution to the muCLAS detector



We are excited to contribute to CLAS12 program!!!