

# INFN-CT@n\_TOF



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  - **M.G. Pellegriti (INFN-CT)**
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In collaboration with  
undergraduate students:

A. Barbon  
A. Pitronaci  
A. Malviya

**INFN-CT & UNIBO & INFN-BO**



*n\_TOF italian collaboration meeting 26/09/2022*



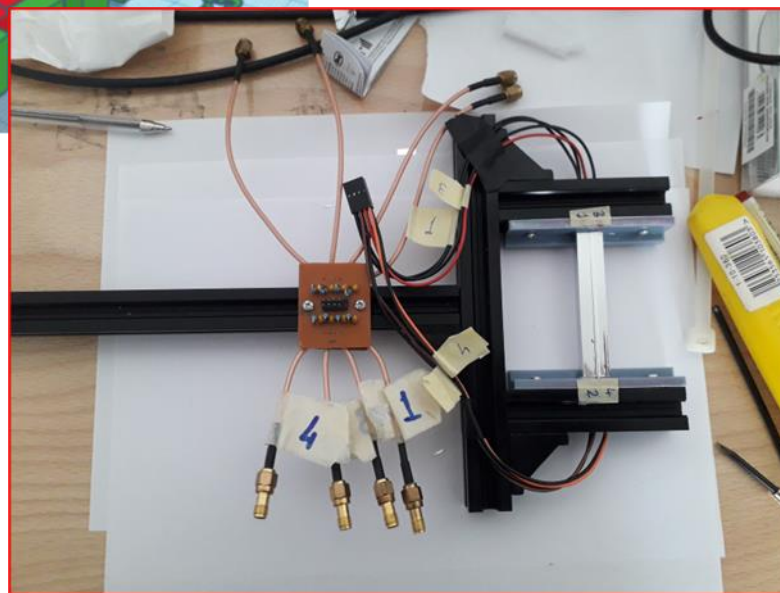
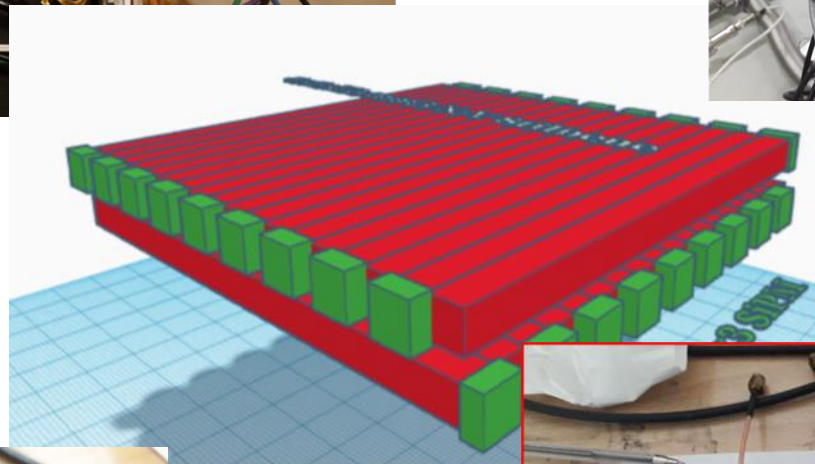
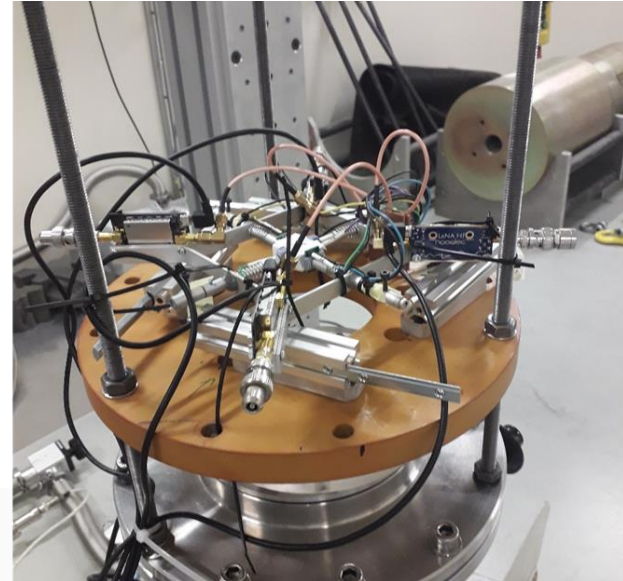
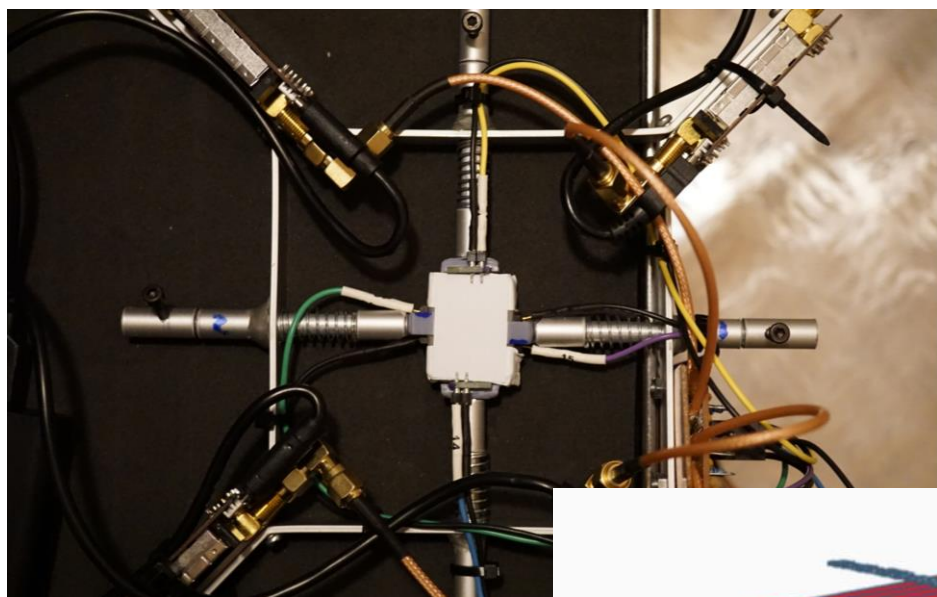
# Activities

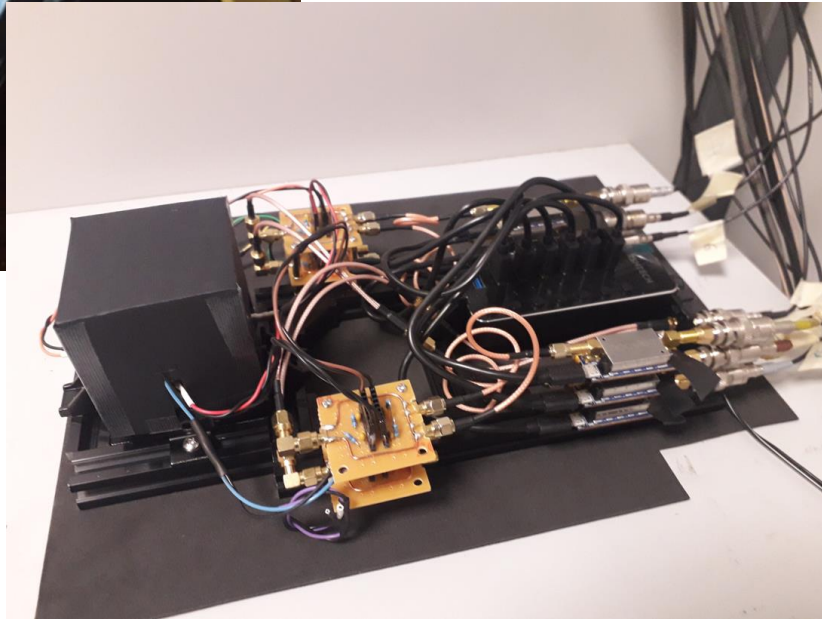
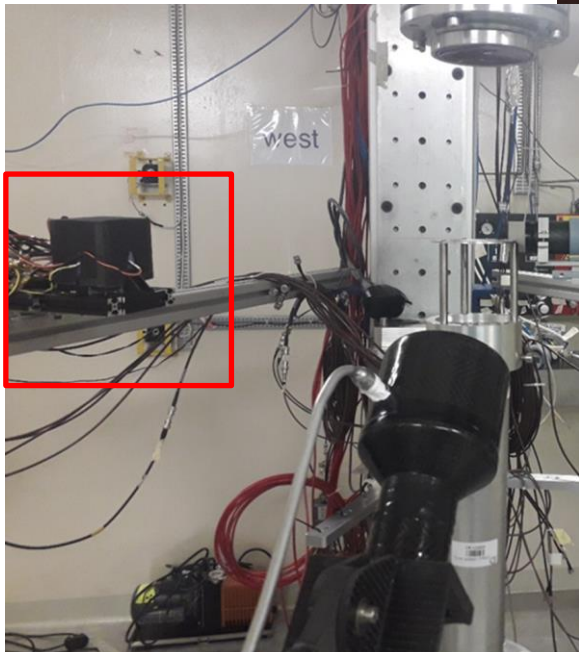
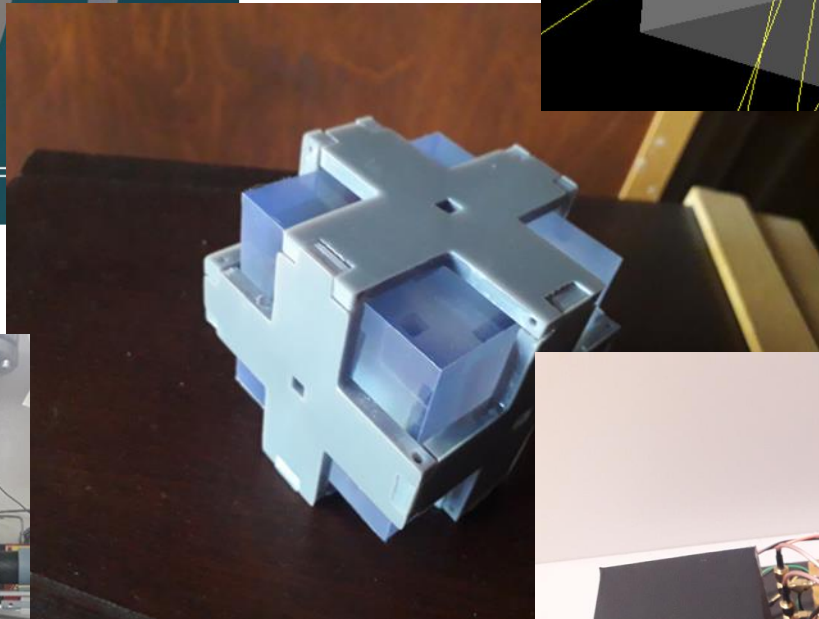
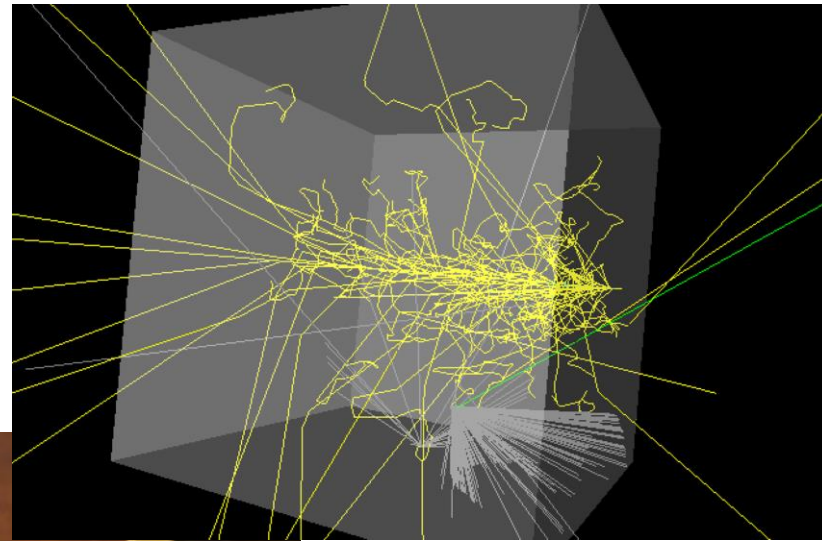
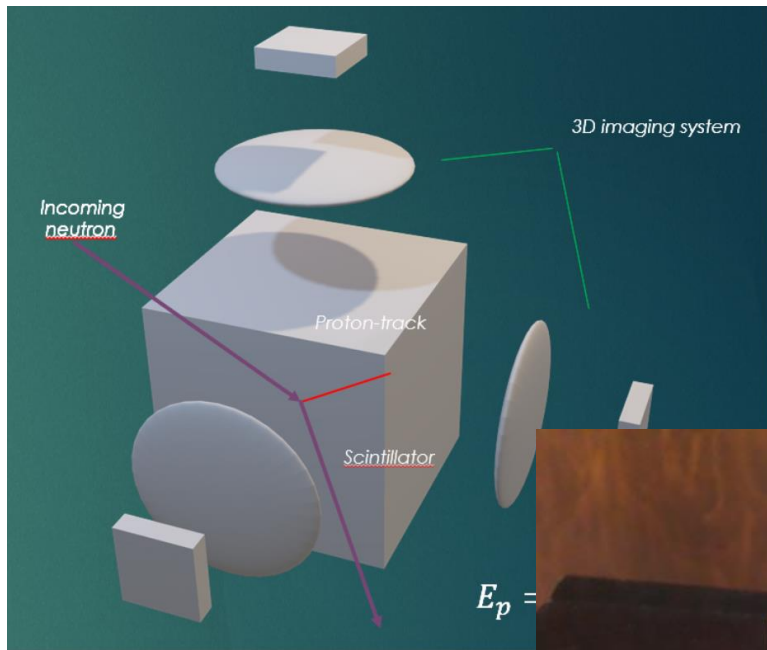
## *In charge of:*

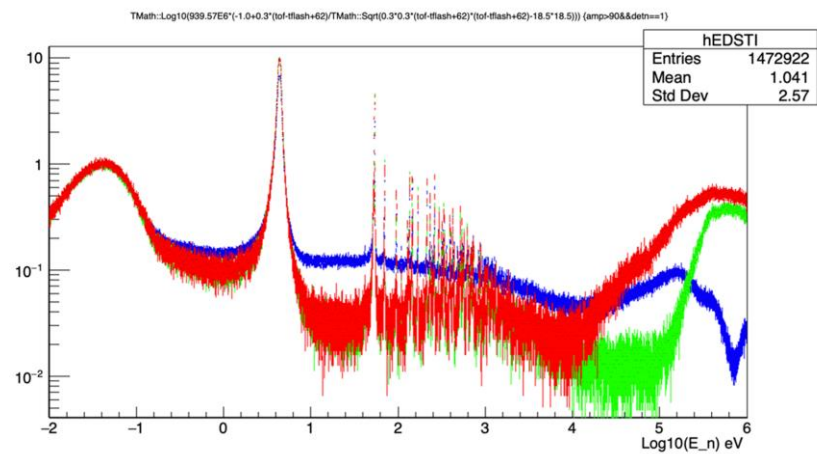
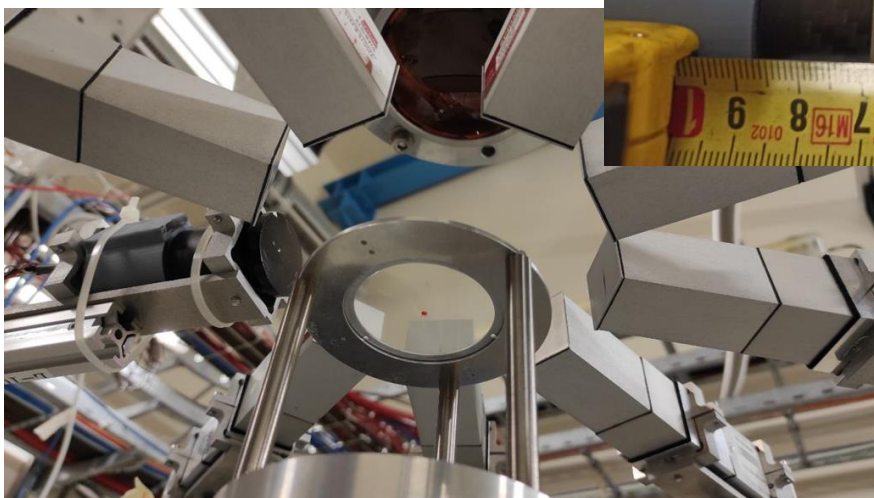
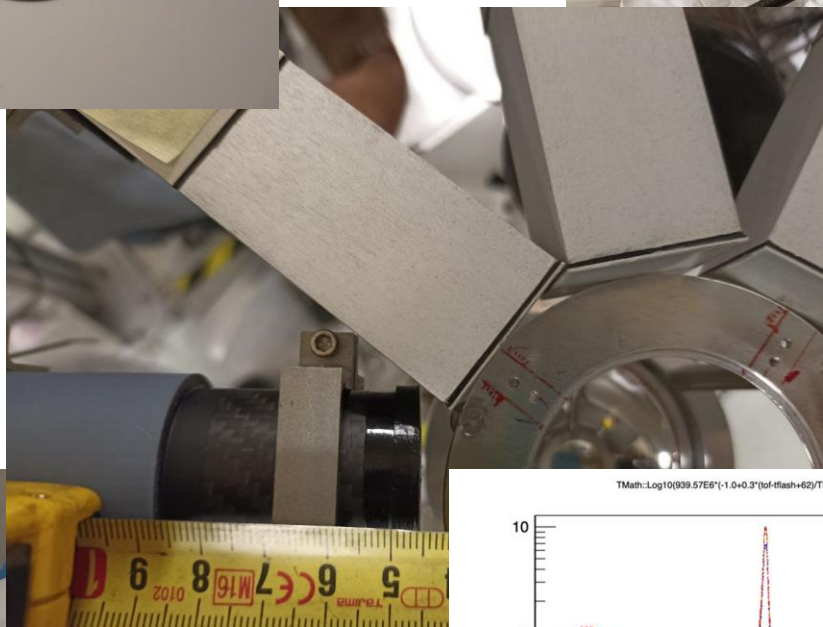
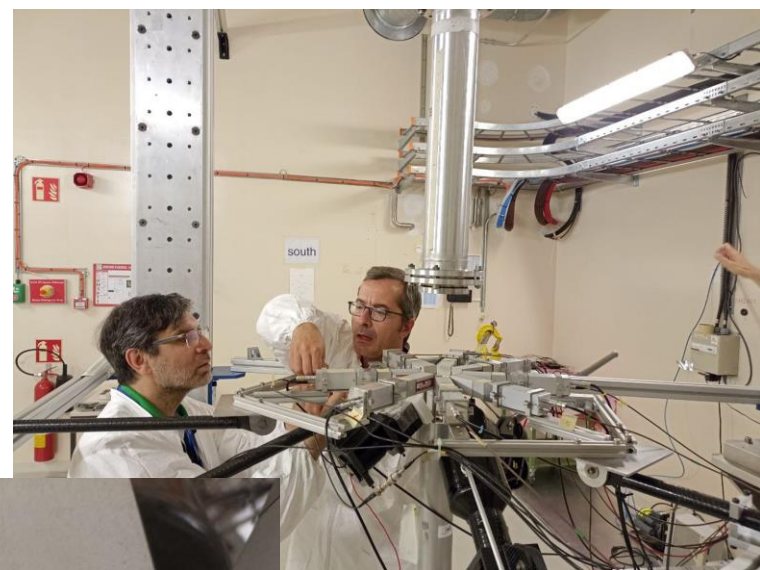
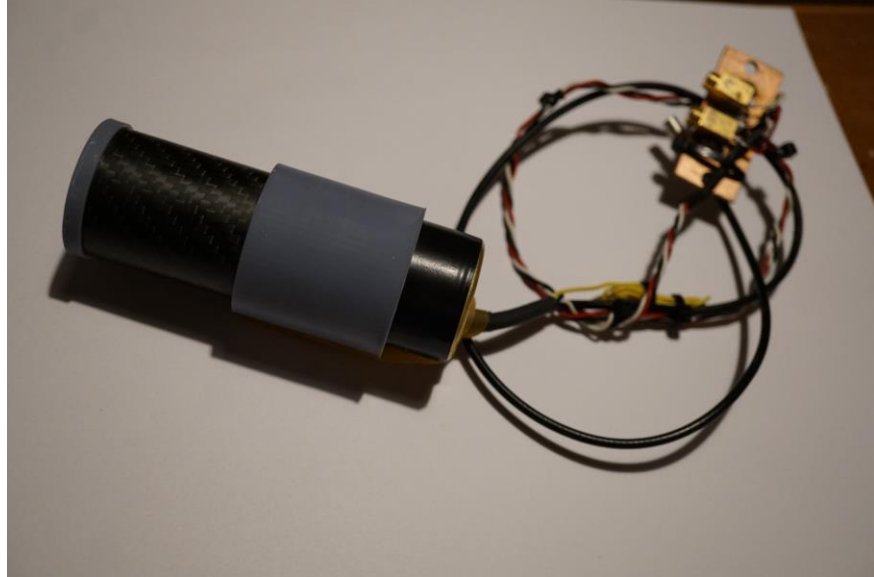
- *Nuclear Physics: the  $^2\text{H}(n,p)nn$  ( $n\_TOF$  Lol)*
- *TaraT active target development and test*
- *RIPTIDE development of a new Recoil Proton detector*
- *Beta-decay setup@NEAR (with N. Patronis)*
- *New detectors for  $n\text{-}\gamma$  measurements – d-Stil (Spanish-Italian collaboration)*

Three weeks of measurement@CERN    three detectors/prototype tested









# Acquisti – Sezione di Catania 2022

Dispositivo	Ordine		Importo (euro)
TaraT	n. 4 Scint. EJ-200 bars (6x5x70mm3)	Scionix	390 + 85
	n. 10 SiPM 3x3mm2	Hamamatsu	878
	n. 2 Controlled Power supply for SiPM	Caen	932

Riptide	n. 2 CMOS camera	Zwo	3662
	n. 2 Macro Optics	Sony	616
	n. 1 Micrometric Translator	Thorlabs	2402
	n. 1 Scint EJ-200 4x4x4cm3 cube	Scionix	415
d-Stil	n.4 Power supply (active base)	Sens-Tech	1837
	n. 1 Photomultiplier (quartz window)	Hamamatsu	752
	n. 4 Stilbene $\phi=1'' \times 1''$ (cylinder)	Scintinel INRAD consegna fine ottobre	5026 – (Ant. Dot Gr. III CT)

Attività 2023

# Status - Assegnazioni 2022 - Sezione di Catania

Descrizione fondi	Stanziato (euro)	Disponibile (euro)
Consumo	6000	1070
Missioni	11000	2513
Trasporti	1000	342
Apparati	7000	381
Anticipo (2023) - Apparati	5000 ?	

Missioni previste:

- Missione CERN (ottobre) richiesta per NEAR
- Meeting internazionale n\_TOF Edimburgo (dicembre)

Tutte le assegnazioni previste sono state portate a termine grazie alla perseveranza di **Maria Grazia Pellegriti (nuovo responsabile locale 2023)**