

# Milano

Gioacchino Ranucci INFN – MI

Meeting italiano Roma Tre

28-7-2023

Composition

Activities

# Anagrafica Milano

cognome	nome	note	struttura	modulo	contratto	profilo	stato	aff	perc
Antonelli	Vito		MI	G1	Associato	Scientifica Enti stranieri	Attivo	2	70%
Basilico	Davide		MI	G1	Associato	Scientifica Assegni non INFN	Attivo	2	100%
Brigatti	Augusto Andrea		MI	G3	Dipendente	Collaboratore Tecnico E.R.	Attivo	2	100%
Caccianiga	Barbara		MI	G1	Dipendente	Dirigente di Ricerca	Attivo	2	60%
Ferraro	Federico		MI	G1	Dipendente	Ricercatore	Attivo	2	100%
Giammarchi	Marco Giulio		MI	G1	Dipendente	Primo Ricercatore	Attivo	3	20%
Landini	Cecilia		MI	G2	Dipendente	Assegno di Ricerca	Attivo	2	100%
Lombardi	Paolo		MI	G2	Dipendente	Dirigente Tecnologo	Attivo	2	100%
Meroni	Emanuela		MI	G1			Contratto non Trovato	2*	
Miramonti	Lino		MI	G1	Associato	Incarico di Ricerca scientifica	Attivo	2	30%
Parmeggiano	Sergio		MI	G3	Dipendente	Collaboratore Tecnico E.R.	Attivo	2	100%
Ranucci	Gioacchino		MI	G2	Dipendente	Dirigente Tecnologo	Attivo	2	100%
Re	Alessandra Carlotta		MI	G1	Associato	Scientifica Ricercatori/Professori universit�	Attivo	2	100%
Saggese	Paolo		MI	G3	Dipendente	Collaboratore Tecnico E.R.	Attivo	2	100%
Torri	Marco Danilo Claudio		MI	G1	Associato	Scientifica Istituti secondari	Attivo	2	100%

**Ricercatori 5.8 FTE    Tecnologi 3 FTE    Tecnici 3**

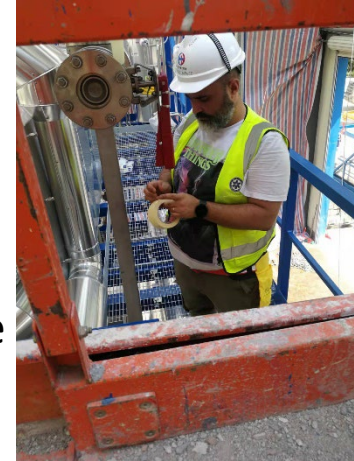
**4 Studenti Magistrali    1 borsista post laurea    1 Dottorando**

# Commitment of the Milano group at JUNO Site



## Purification of the scintillator through distillation and gas stripping - steam and/or nitrogen - with Ferrara

- Work at Polaris completed during the lockdown
- The two plants stored close to the site for more than 1 year
- During the pandemic modified the installation procedures to perform the installation together with a hired Chinese company
- A lot of work to interact with the company, prepare the procedures, defined the funding, etc
- With an enormous effort **Paolo and Michele** succeeded to reach the JUNO site (spring 2022) to do with the Company the **first phase** of the **installation** of the plants – Michele got very recently his PhD!
- With another great effort (less quarantine ) **Paolo and Cecilia** spent 2 months in the Fall 2022 to perform the second phase of the installations



# Ongoing work and next step

**Phase III** individual commissioning – **Ongoing** – Task to prepare 20 tons of scintillator to be stored for later fill of OSIRIS in the Summer

**Phase IV** Joint operation of the plants and online fill of OSIRIS – **Next Fall**

Next year **fill of the detector**-  
> manpower issue

Travel much easier now with the removal of all COVID restrictions



The Commissioning crew Augusto Marco Cecilia Paolo at Malpensa with Monica

# Activities at the Section



During the pandemic the in-house activities at the Section grown substantially

- Laboratory scintillator measurements : SHELDON program

Definite improvement of the existing capabilities to characterize LS samples and addition of the characterization of the Cherenkov component of the scintillation light, refraction index - talks from Federico Ferraro/Marco Beretta and Gioele Reina

- Analysis MC and computing

Impact of the scint. meas. results on detector simulation - Marco Malabarba

Sensitivity studies for solar neutrinos – **completed a collaboration paper under review**

Sensitivity studies for Mass Hierarchy – Elisa Percalli Davide Basilico

Sensitivity studies for Non standard Interactions and Lorentz Invariant Violation in the neutrino sector – talk from Vito Antonelli and Marco Torri

Participation to software and computing management at CNAF – Alessandra Re

- Will take care to send the CF for the entire group

Back up

Capitolo ▲	Descrizione ◆	Stanzionato ◆	Variato ◆	Subjudice e Cong. ◆	Preimpegno ◆	Impegni ◆	Disponib. ◆	Proposta in corso ◆	Disp. Teorica ◆
<a href="#">U1030102008</a>	Strumenti tecnico-speci +	3.000,00	0,00	0,00	<u>0,00</u>	2.037,43	962,57	0,00	962,57
<a href="#">U1030202001</a>	Rimborso per viaggio e +	41.000,00	0,00	0,00	<u>0,00</u>	36.597,20	4.402,80	0,00	4.402,80
<a href="#">U1030209005</a>	Manutenzione ordinaria +	0,00	780,00	0,00	<u>0,00</u>	769,21	10,79	0,00	10,79
<a href="#">U1030213003</a>	Trasporti, traslochi e +	3.000,00	0,00	0,00	<u>0,00</u>	0,00	3.000,00	0,00	3.000,00
<a href="#">U1030299999</a>	Altri servizi diversi n +	0,00	25.000,00	0,00	<u>0,00</u>	0,00	25.000,00	0,00	25.000,00
<a href="#">U2020105001</a>	Attrezzature scientific +	3.000,00	-780,00	0,00	<u>0,00</u>	0,00	2.220,00	0,00	2.220,00
<b>Totale:</b>		<b>50.000,00</b>	<b>25.000,00</b>	<b>0,00</b>	<b>0,00</b>	<b>39.403,84</b>	<b>35.596,16</b>	<b>0,00</b>	<b>35.596,16</b>