

Preventivi 2026

DUNE

F. Raffaelli

Status of present Pisa activities

- A straw prototype (1200x800 mm) is under construction in Pisa . The prototype will be tested at CERN in July or at the beginning of August. A full-scale prototype will be assembled partially In Dubna and in India. The design of the full-scale prototype has been made by the Pisa Group.
- Contacts are underway with the Bologna group to verify the feasibility of an alternative based on drift chambers
- The study of the calorimeter refurbishing is in progress. A stand has been made to test various solutions. Wrapping with tape. Gluing Stainless steel sheet 0.3 mm thick.

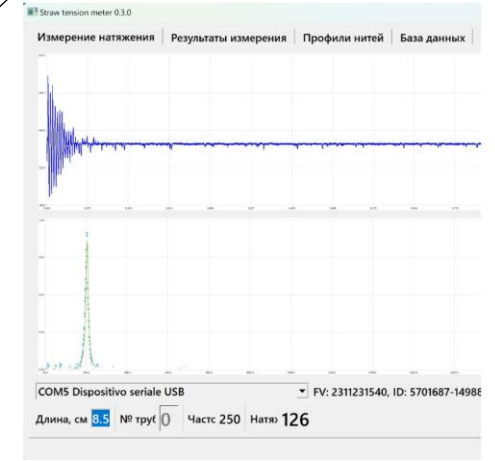
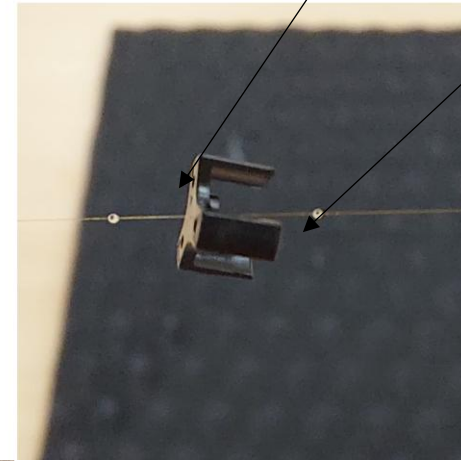
Activities 2026

- Participation in the mechanical and electronic design of the tracker.
- Calorimeter refurbishing.

Same pictures of the construction of the prototype in Pisa . Inner spacer

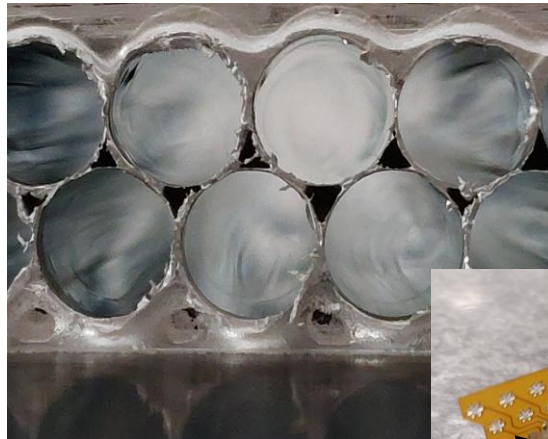
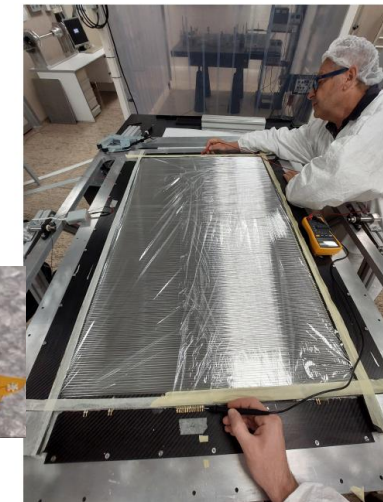
Tungsten wire 20 micron

Wiring (2/3): spacer and calibration



Wire tension measurements

Wire resistance measurements



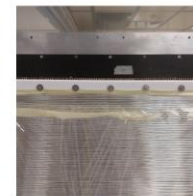
(a) Sealing the holes



(b) Adding an o-ring like seal



(c) Teflon mold



(d) Teflon mold



Cable

7/7/2025

Cables and electronics

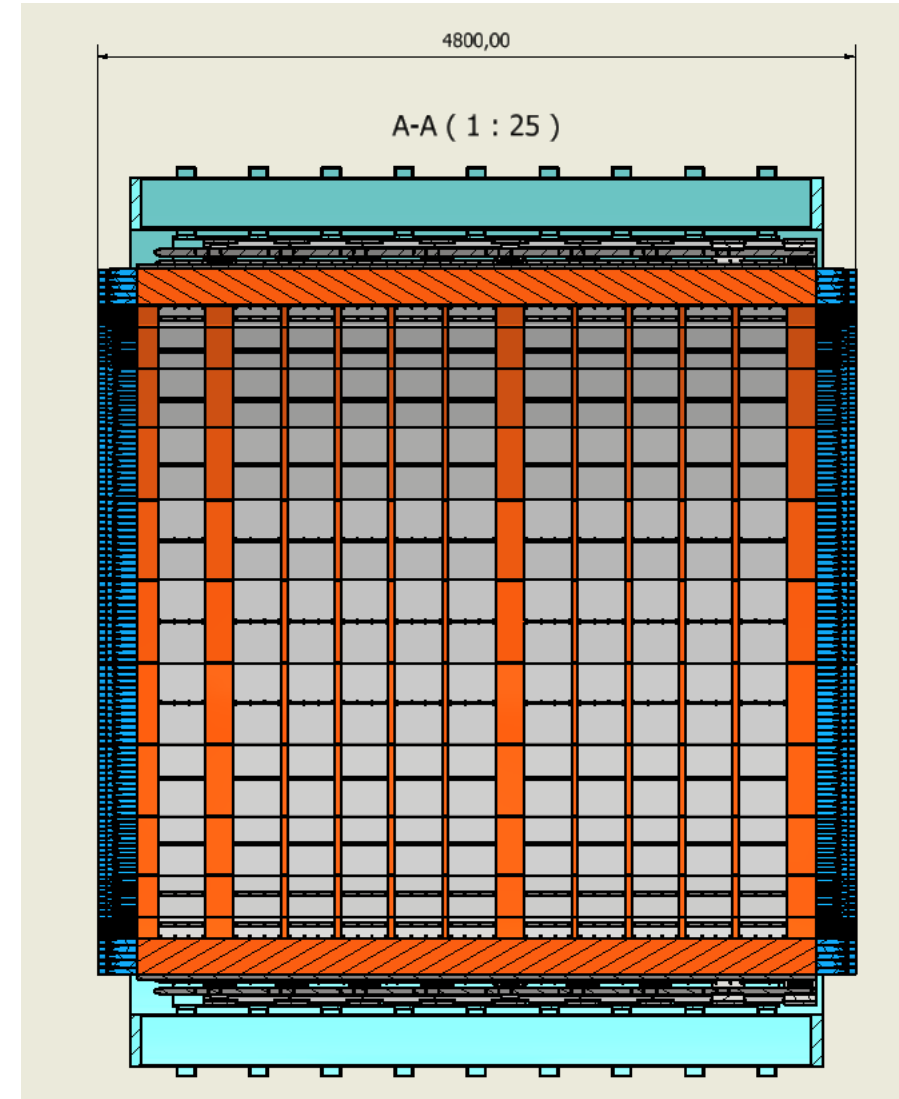
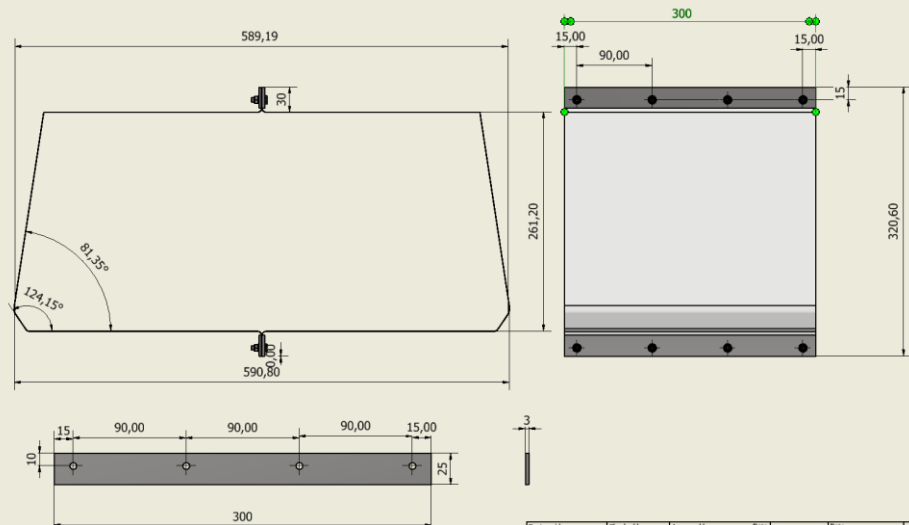
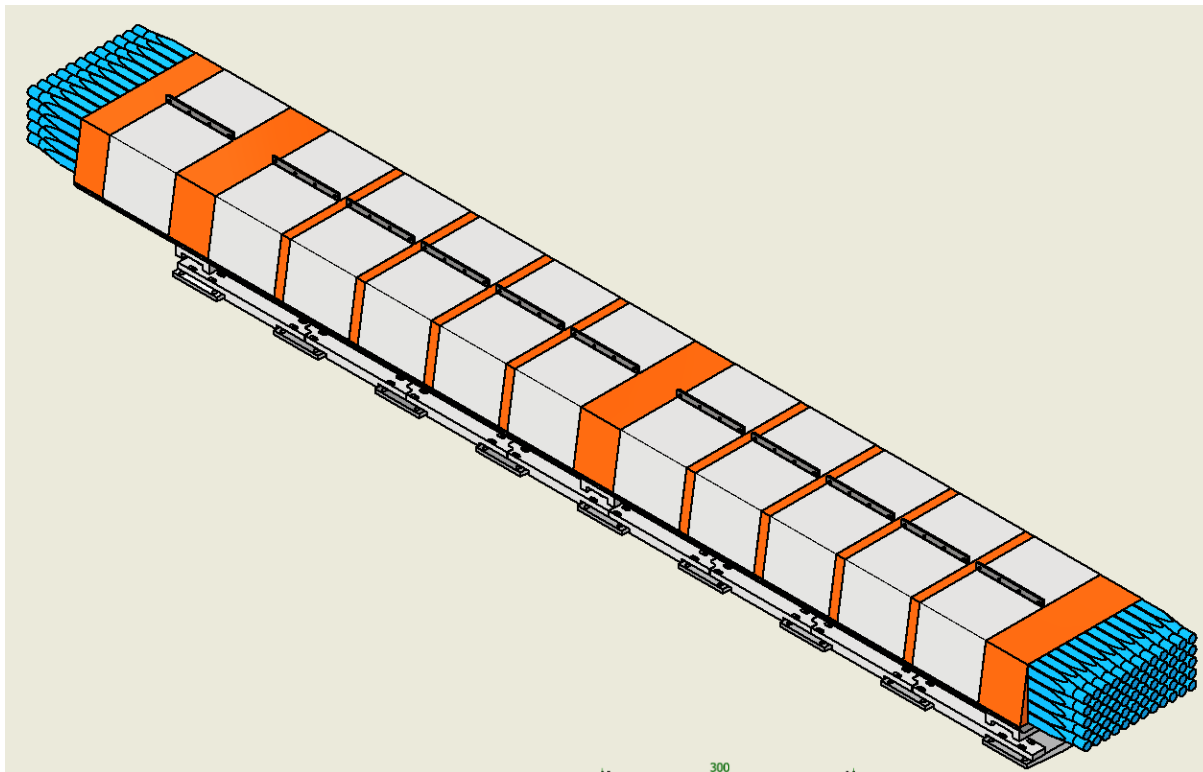
Dune Pisa gruppo 1



Glue Joint test

7/7/2025

Dune Pisa gruppo 1



DUNE PISA Anagrafica 2026.

Dune Pisa		FTE	
Fabrizio Raffaelli		0,50	Dir. Tecnologo INFN
Stefano di Falco		0,40	Prim. Ricercatore INFN
Franco Spinella		0,10	Prim. Tecnologo INFN
Elena Pedreschi		0,10	Prim. Tecnologo INFN
Simone Donati		0,10	Prof. associato UNIV Pisa
Valerio Giusti		0,20	Prof. associato UNIV Pisa
Luca Morescalchi		0,10	Ricercatore INFN Pisa
Riccardo Ciolini		0,10	Prof. associato UNIV Pisa
Saverio Mameli		0,70	Assegnista INFN
Giovanni Falcitelli		1,00	Associato Fisico
	Totale	3,30	

Richieste 2026 gruppo Pisa.

• SAND/STT Collaboration meeting CERN 3 persone 3X 1.2 Keuro	3.60 Keuro
• SAND/STT Collaboration meeting Fermilab 2 persone 2*2.00 Keuro	4.00 Keuro
• SAND/STT Collaboration meeting Italia 5 persone 5 X 0.7	3.50 Keuro
• SAND/ECAL Missioni a Frascati di due tecnici per ripristino moduli 3 Settimane 3*2*800	4.80 Keuro
• SAND/STT Missioni a Bologna per tracciatore	2.50 Keuro
• SAND/ECAL Missioni a Frascati per test di ripristino moduli	2.00 Keuro
• SAND/STT Missioni test beam 4 persone 2 Settimana	9.60 Keuro
• Metabolismo 1.5*3.3	4.95 Keuro
• Spese per test ripristino calorimetro	7.00 Keuro
• Costruzione prototipo tracciatore in scala	40.00 Keuro
• Rinnovo licenza CAD Inventor	3.5 Keuro

Sommario:

Incarichi:

- 1) Stefano di Falco conviner di STT
- 2) Fabrizio Raffaelli Responsabile ripristino moduli ECAL

Totale missioni	30.00 Keuro
Metabolismo	4.95 Keuro
Ripristino calorimetro	7.00 Keuro
Costruzione prot. Tracc.	40.00 Keuro
Rinnovo Licenza CAD	3.5 Keuro