

Tracker support

Marco Incagli – INFN Pisa

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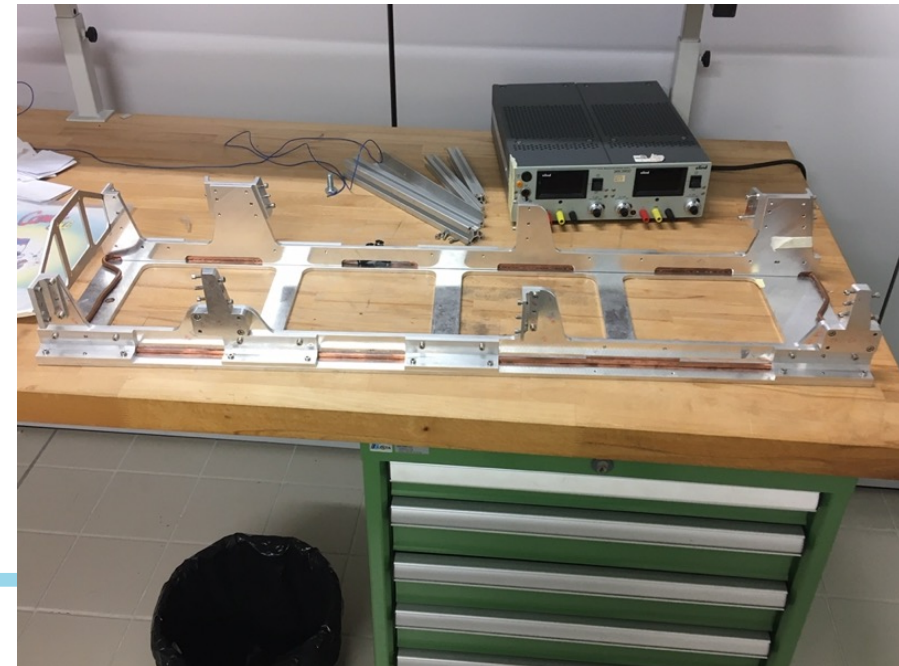
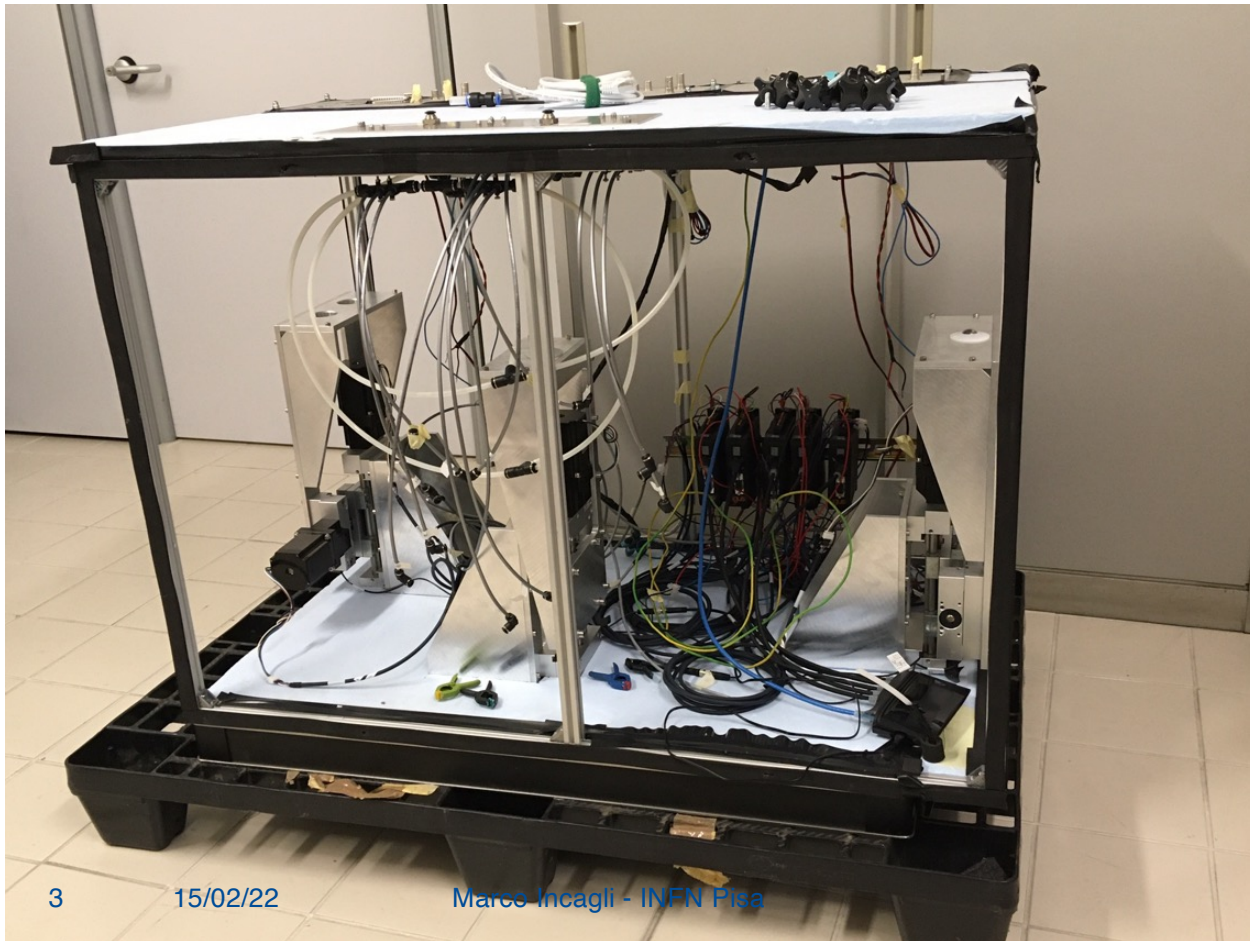
Current activity

- INVAR and support construction
- step motors for alignment
- patch panels and electrical connections
- hydraulics



reminder

- the station



INVAR



- Material arrived in Pisa (!!!); cost = 15 kE VAT+transport included
- Invar sheet in workshop to check workability
- rest of the material will be sent to the factory for machining (estimated cost, 12 kE)



support



- Al frames currently at Cern
- new frames for 1st INVAR support ready at ~mid march
- will be sent to Perugia and (existing!) modules will be mounted and tested
- a plexiglas protection cover for handling is under construction in Perugia

step motors

- support being machined in Pisa
- motors + servers ordered: shipped yesterday (15/02/2022) from Germany



patch panels

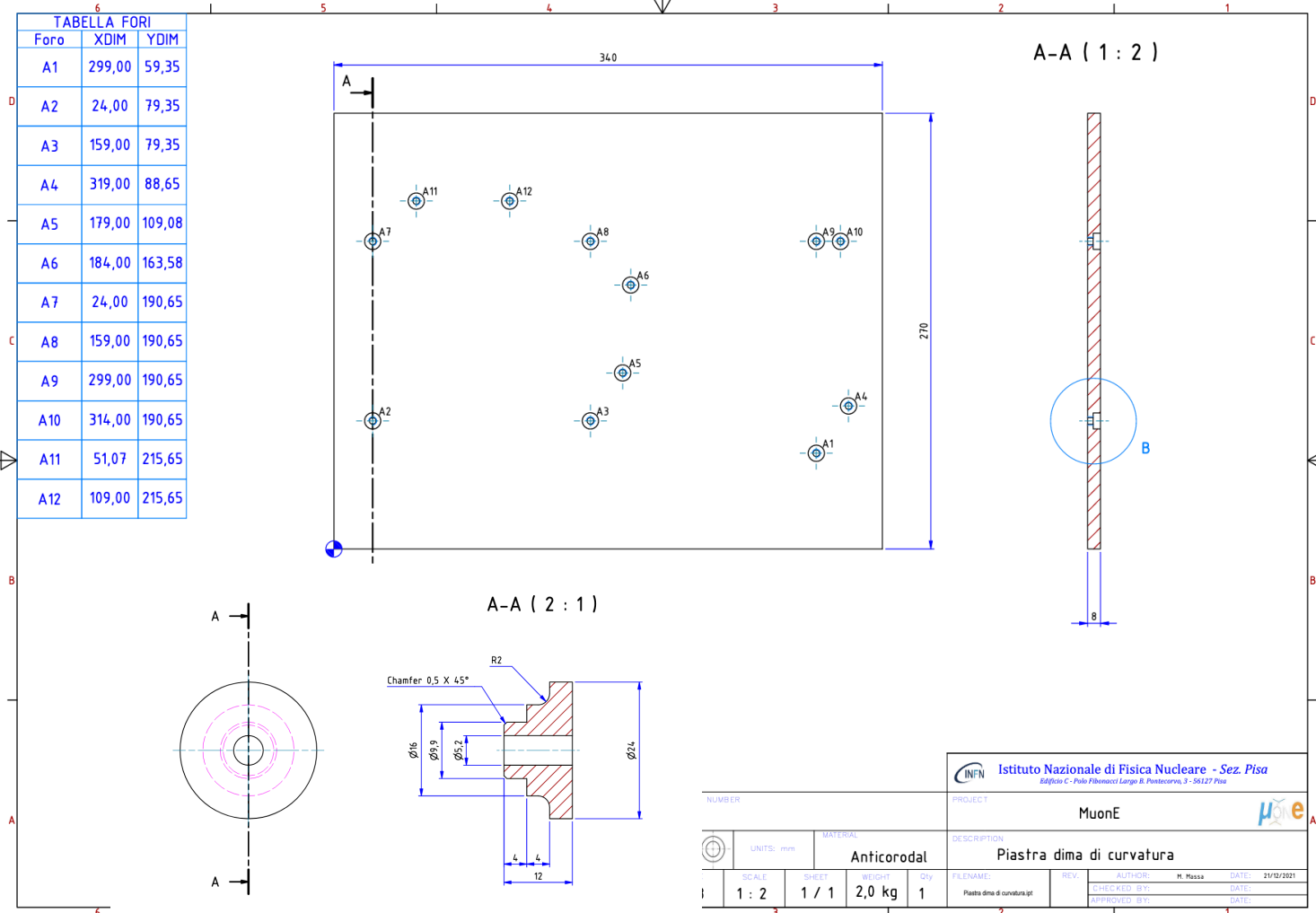
- patch panel under review to reduce space
- additional feedthrough for dry air
- HVLV connectors to be modified (after TB21)
- temperature sensors already present in TB21; humidity sensors will be added



cooling tubes



- the interference with the PT2S modules observed at 2021 Test Beam has been discussed with Perugia and, presumably, solved
- a bending tool is being built in the machine shop



Istituto Nazionale di Fisica Nucleare - Sez. Pisa Edificio C - Polo Fisicosci Largo B. Pontecorvo, 3 - 56127 Pisa				PROJECT: MuonE				
MATERIAL: Anticorodal				DESCRIPTION: Piastra dima di curvatura				
NUMBER: 1 : 2	SCALE: 1 / 1	SHEET: 1 / 1	WEIGHT: 2,0 kg	Qty: 1	FILENAME: Piastra dima di curvatura.pr	REV:	AUTHOR: M. Massa	DATE: 21/12/2021
CHECKED BY:						APPROVED BY:		DATE:

Summary



- took a long time for INVAR procurement and still we have to understand how easy is to machine it. Evaluate for the future N stations if strictly needed (this will depend also on the thermal environment)
- current plan is to have the first station ready mid April and send it to Cern
- the next ones will take less time, as most of the parts will be ready for all 3 stations
- Carlo is moving to Cern on March 1st