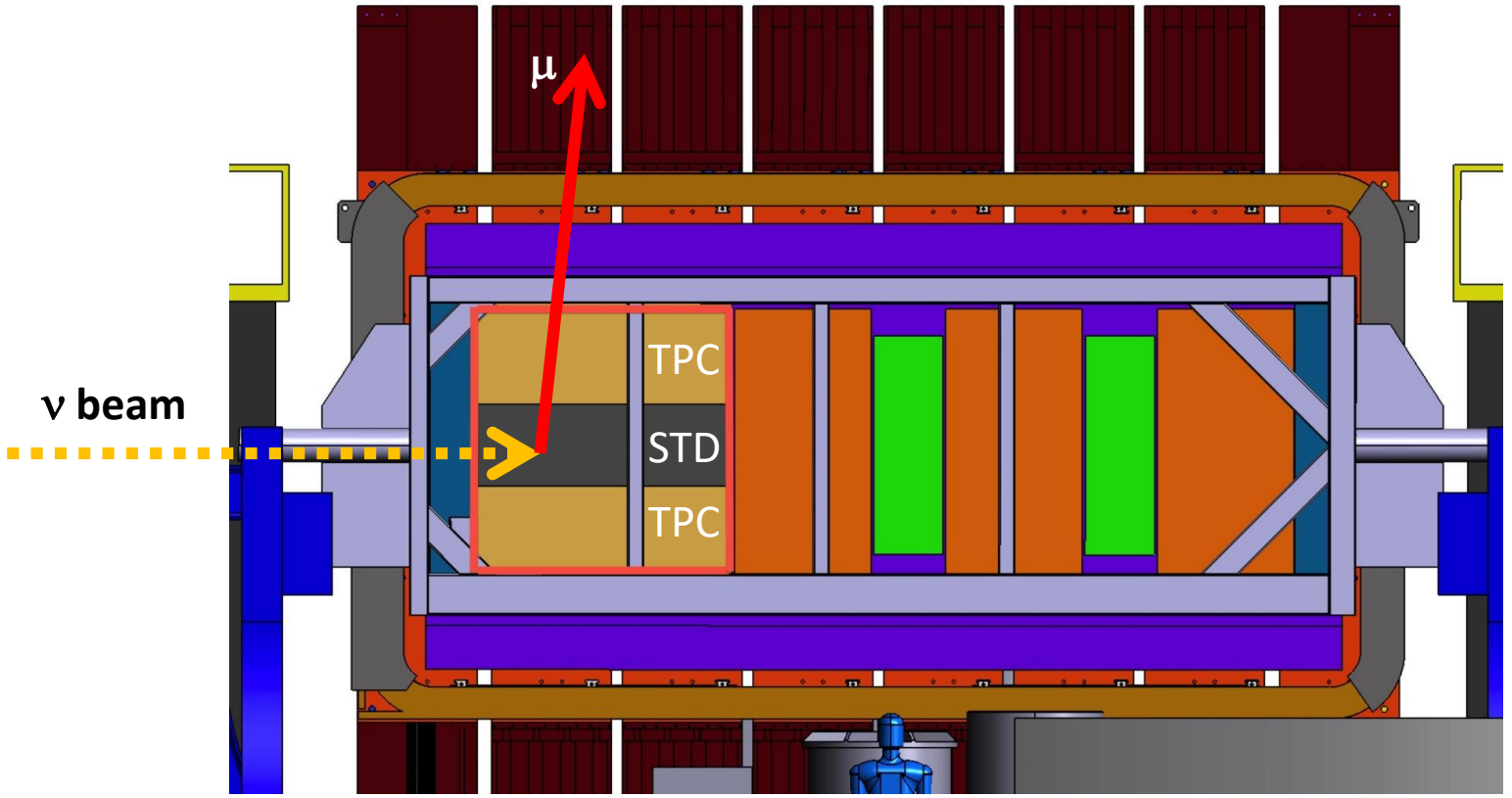
ND280 Upgrade

Institute for High Energy Physics



TPC Principle

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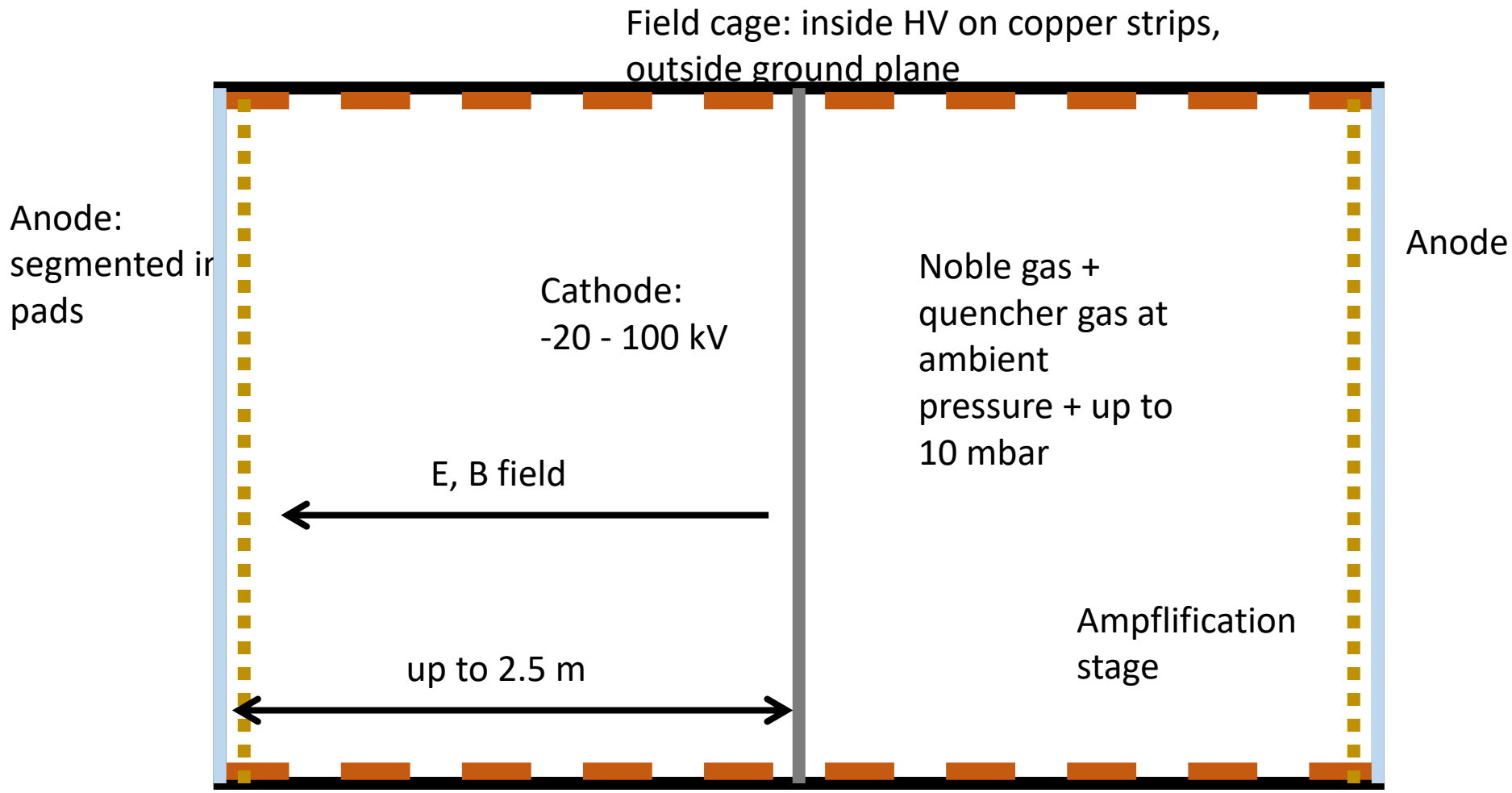

TPC Principle

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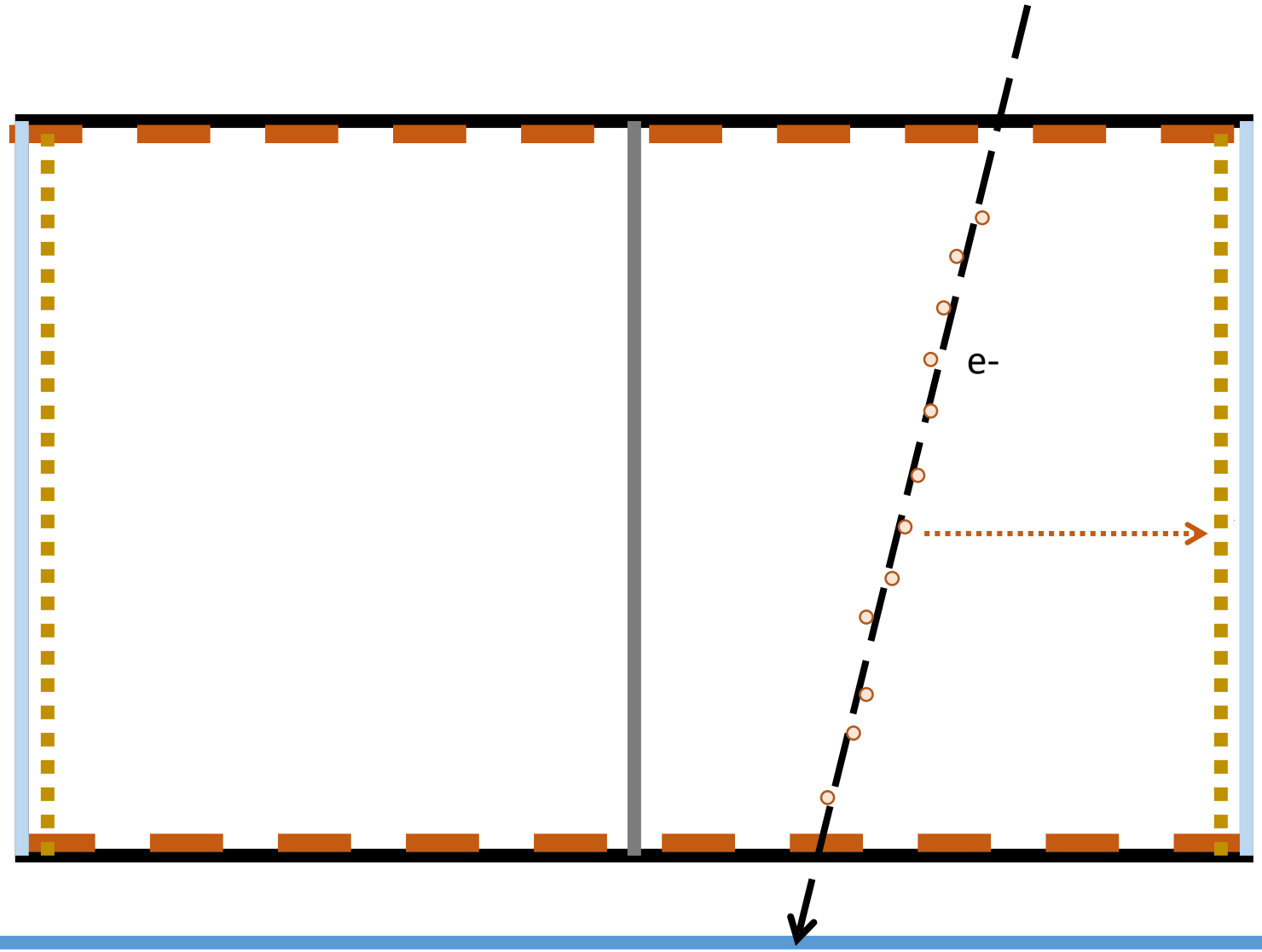
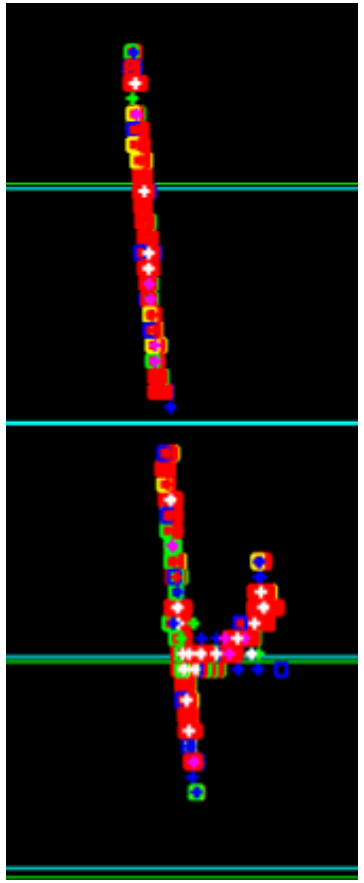


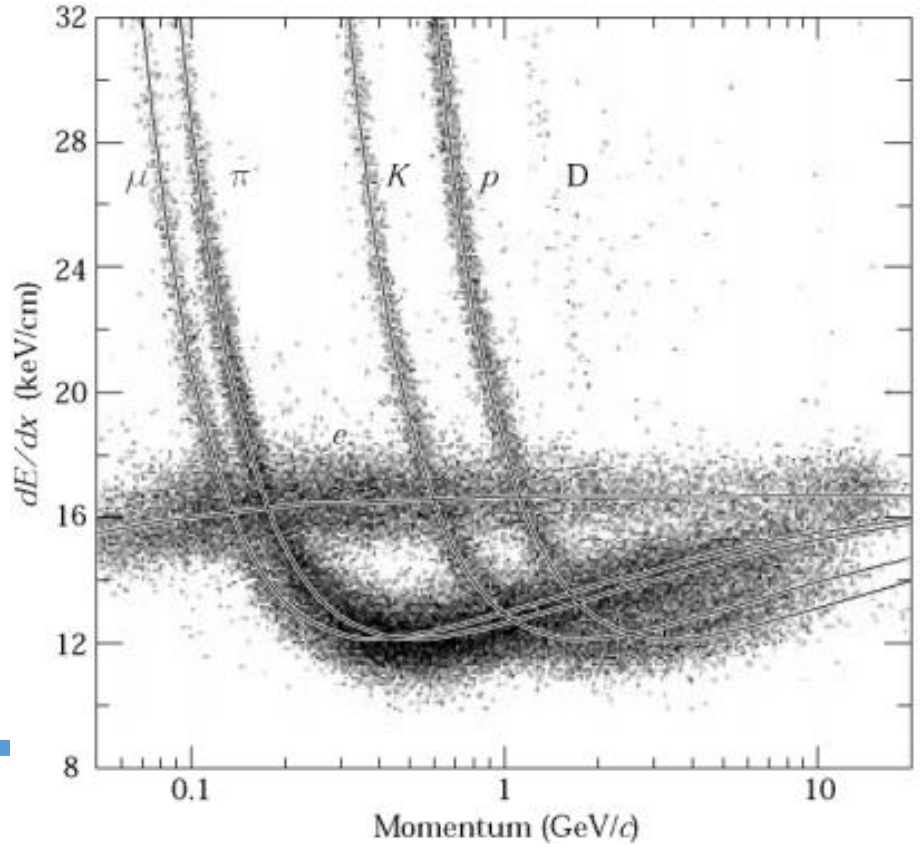


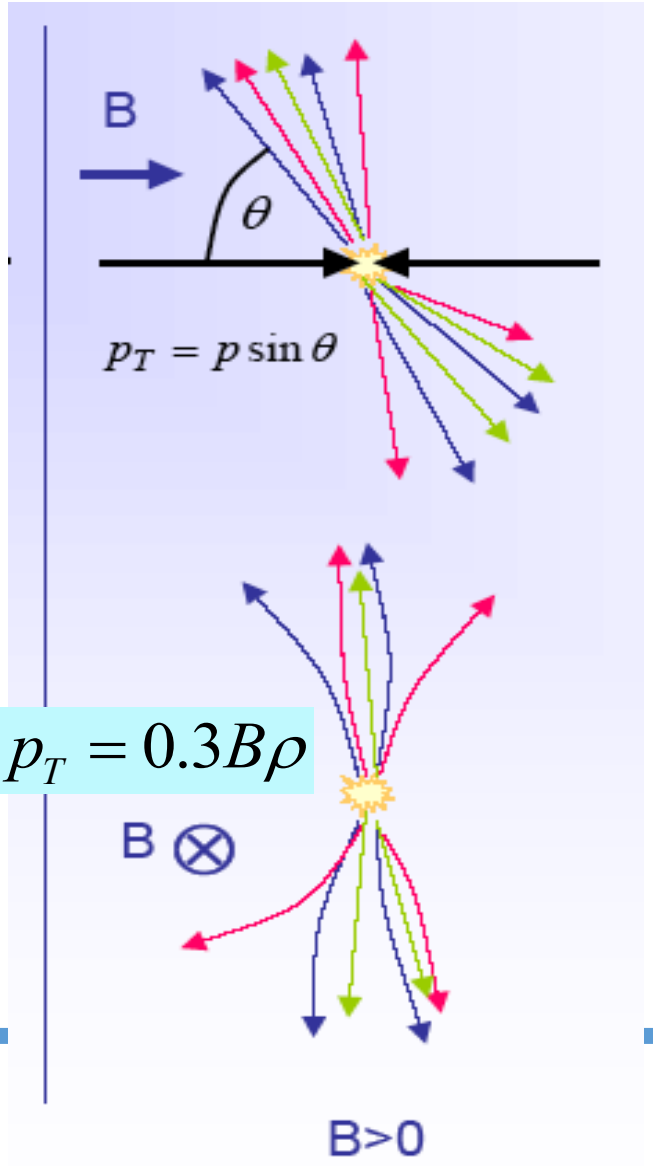
TPC Principle

$$p = p_\perp / \sin\theta = p_\perp \sqrt{1 + \cot^2\theta}$$

- momentum from track reconstruction
- dE/dx from deposited charge along track

=> Particle identification (PID)





TPC: Field Cage

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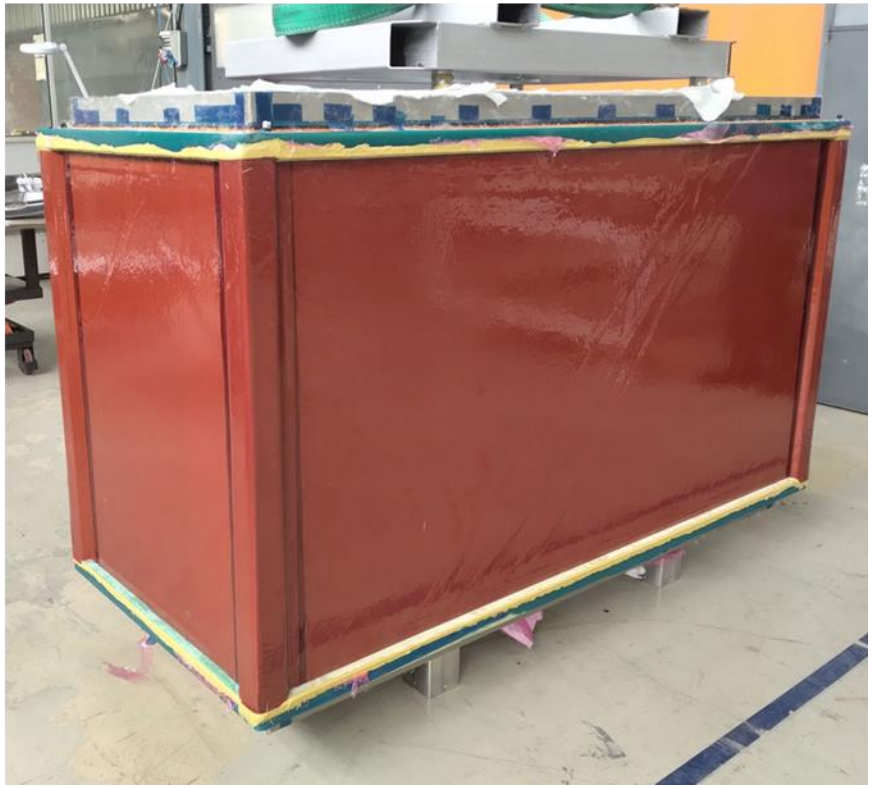
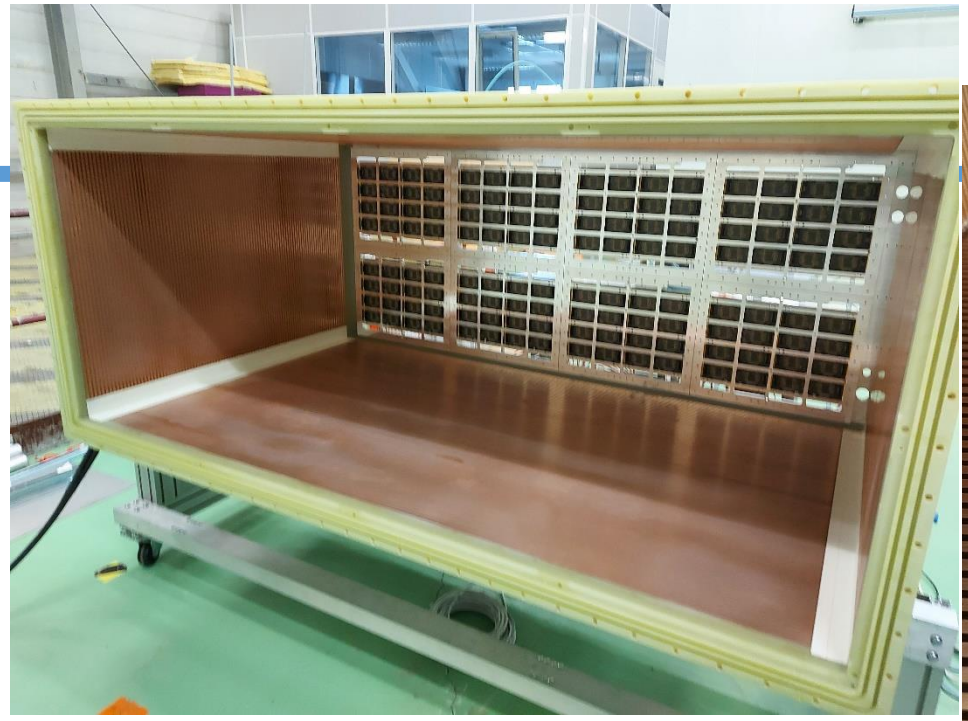
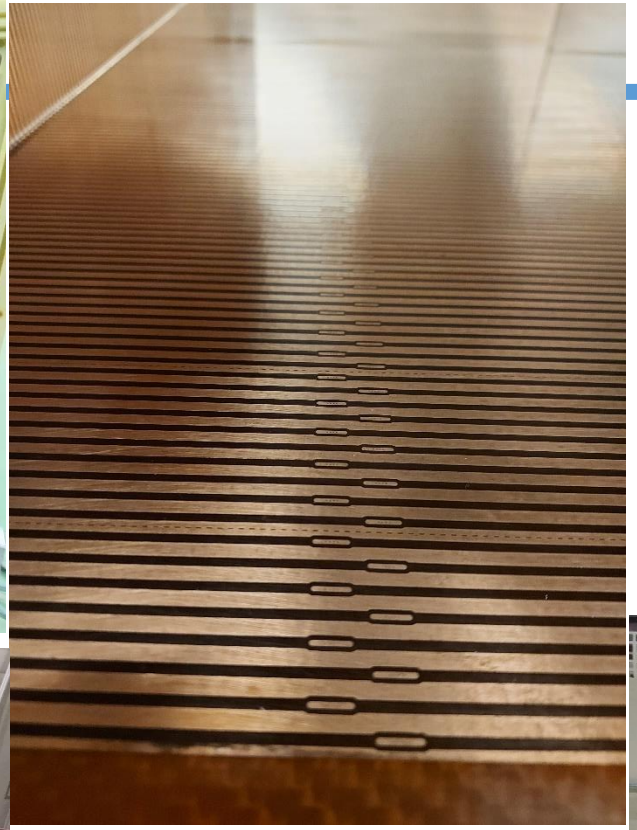
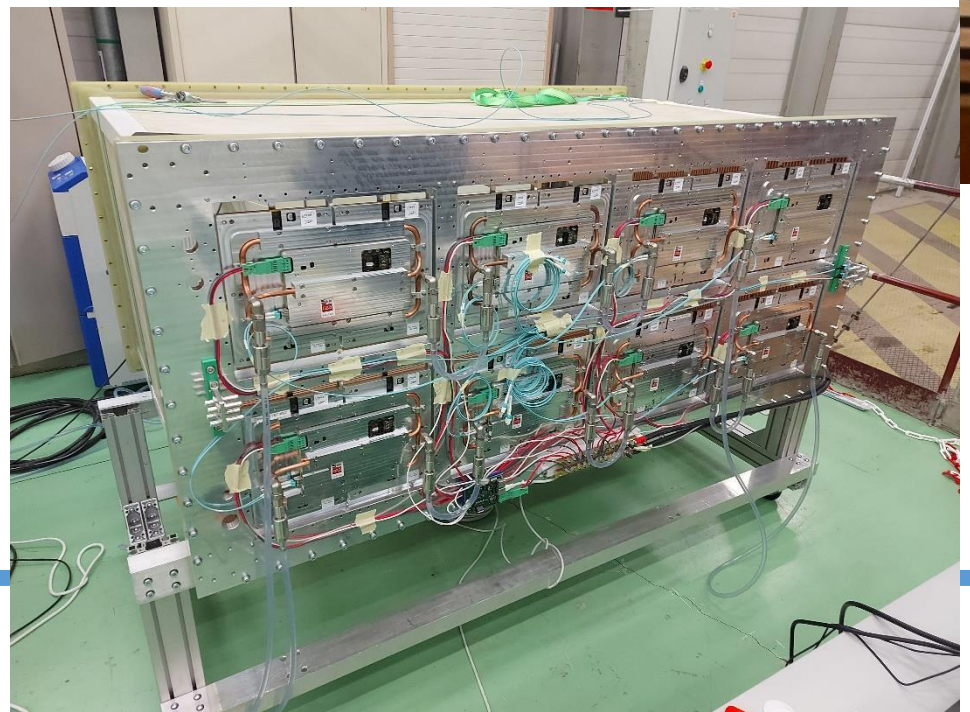
- Procedures went well during weeks 38 – 42 at the NEXT company (Spain)
- Weeks 42-46: search for new milling company → found close to Nexus

Strip foil, wrapping & alignment

Resin casting

Field Cage with mold before flange machining