



This project has received funding from the European Union's Horizon 2020 Research and Innovation programme under GA No 101004730.

Task 9.3 Progress @



3rd iFAST WP9 meeting - 18th November 2021

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iFAST



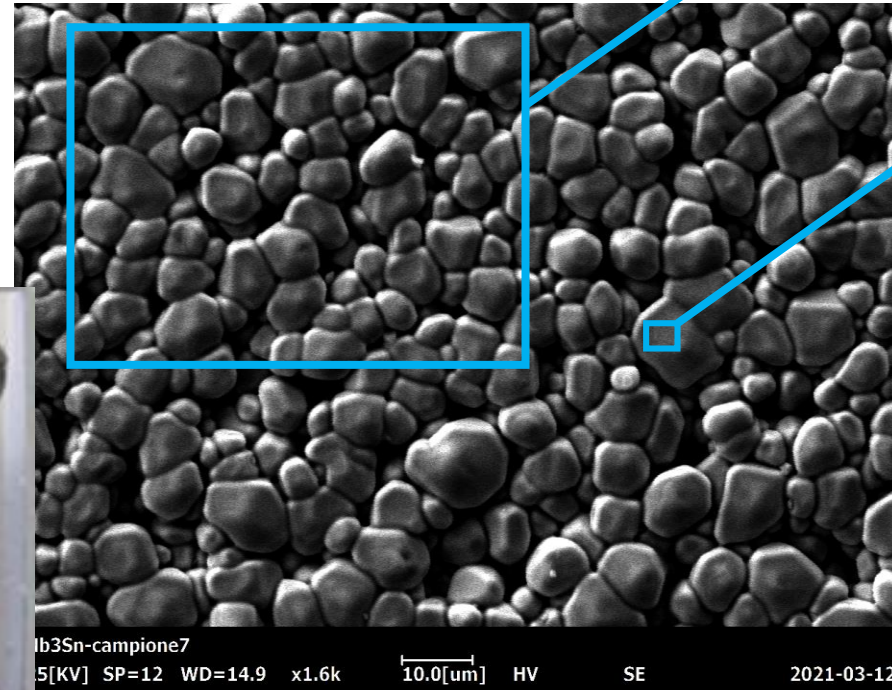
Dipping (for Nb₃Sn target)

Chromium poisoning

Presence of Ni and Fe as well



Inconel Alloy
of **vacuum chamber**



Grains + GB

Nb 58 %

Sn 30 %

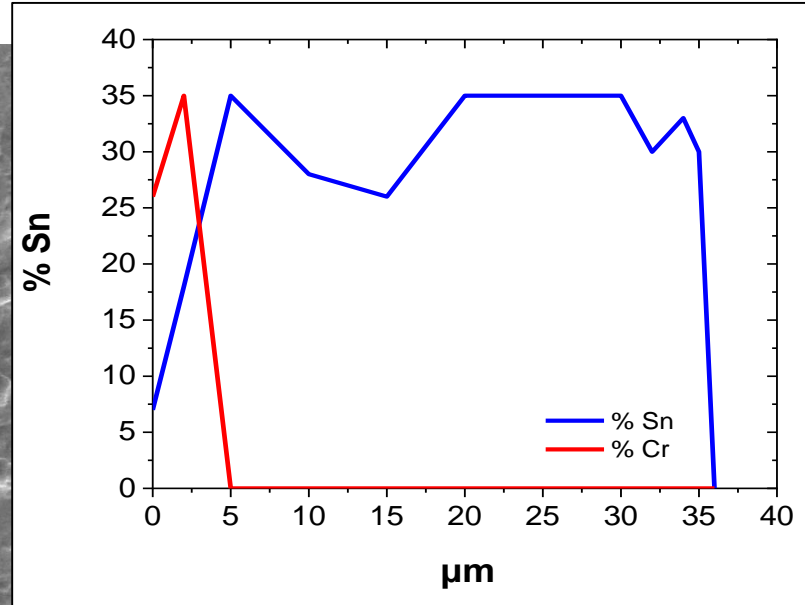
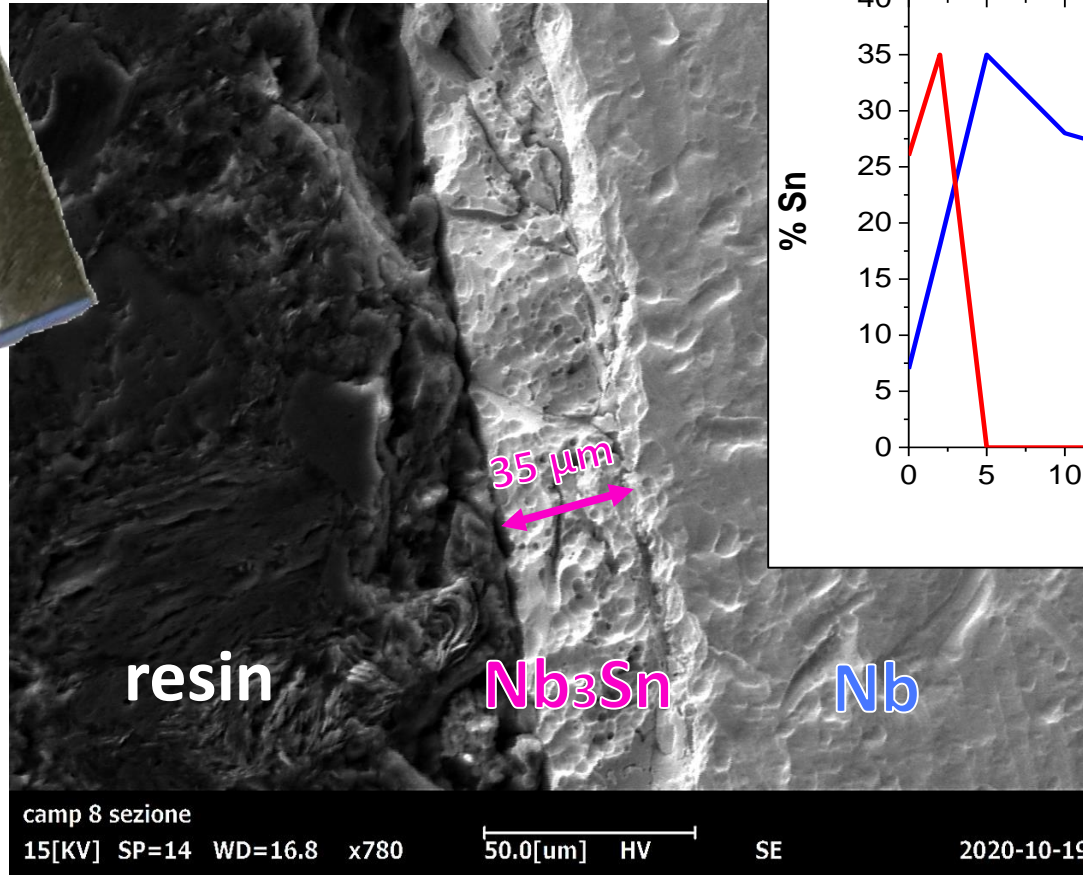
Cr 10 %

Grain

Nb 74-76 %

Sn 24-26 %

Cr poisoning characterization

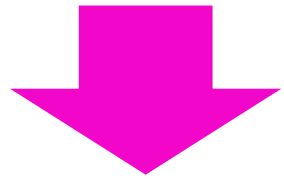


EDS profile for Sn and Cr

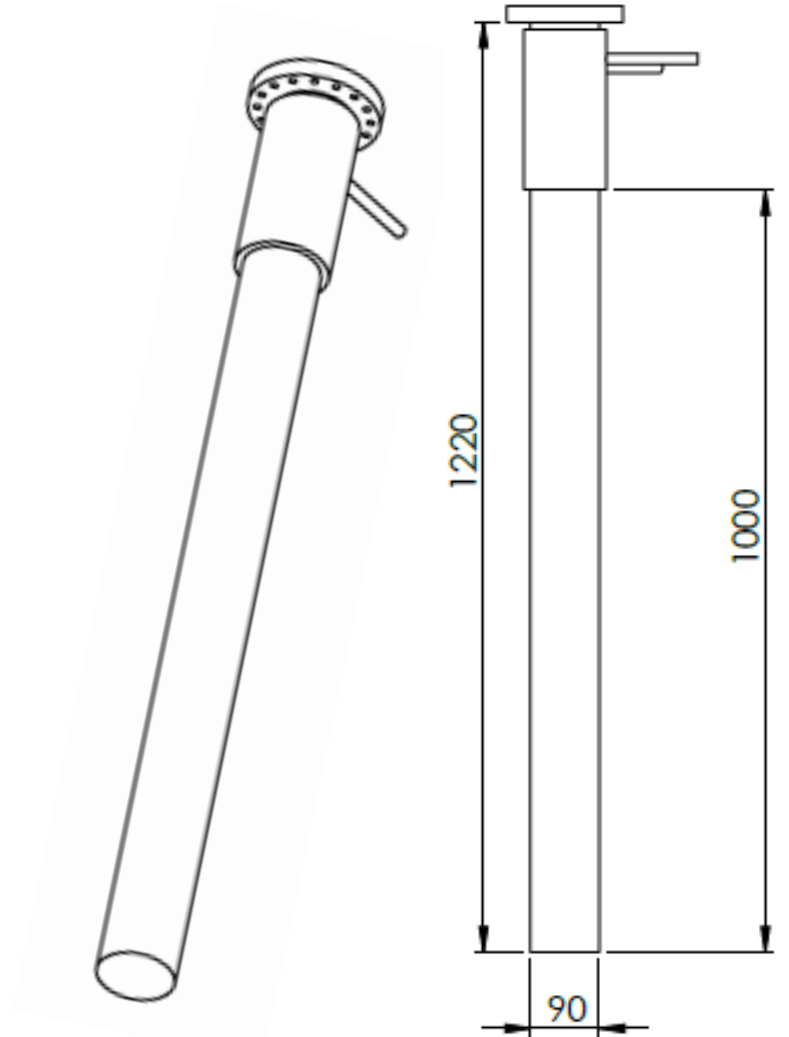
- Contamination is **superficial**
- No contamination in **Sn crucible**

How to solve?

New UHV furnace in Nb ordered to Zanon



Ready for the end of January 2022



UHV system refurbishing complete

- First coatings of NbTi done (for another project)
- Next week we will start to work with Nb₃Sn 4” commercial targets (first goal reproduce CERN and UKRI results)

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Thanks for your attention



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