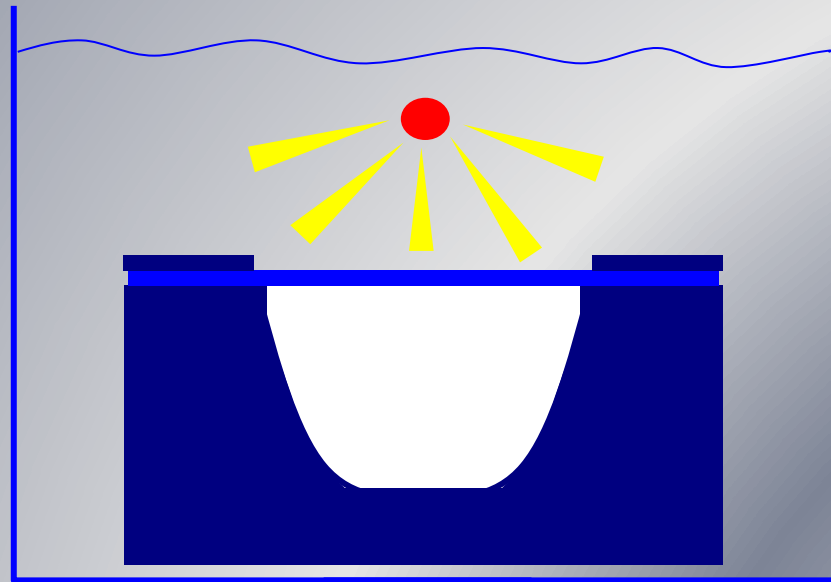


What Fusion Research brought us



3D-Metal Forming



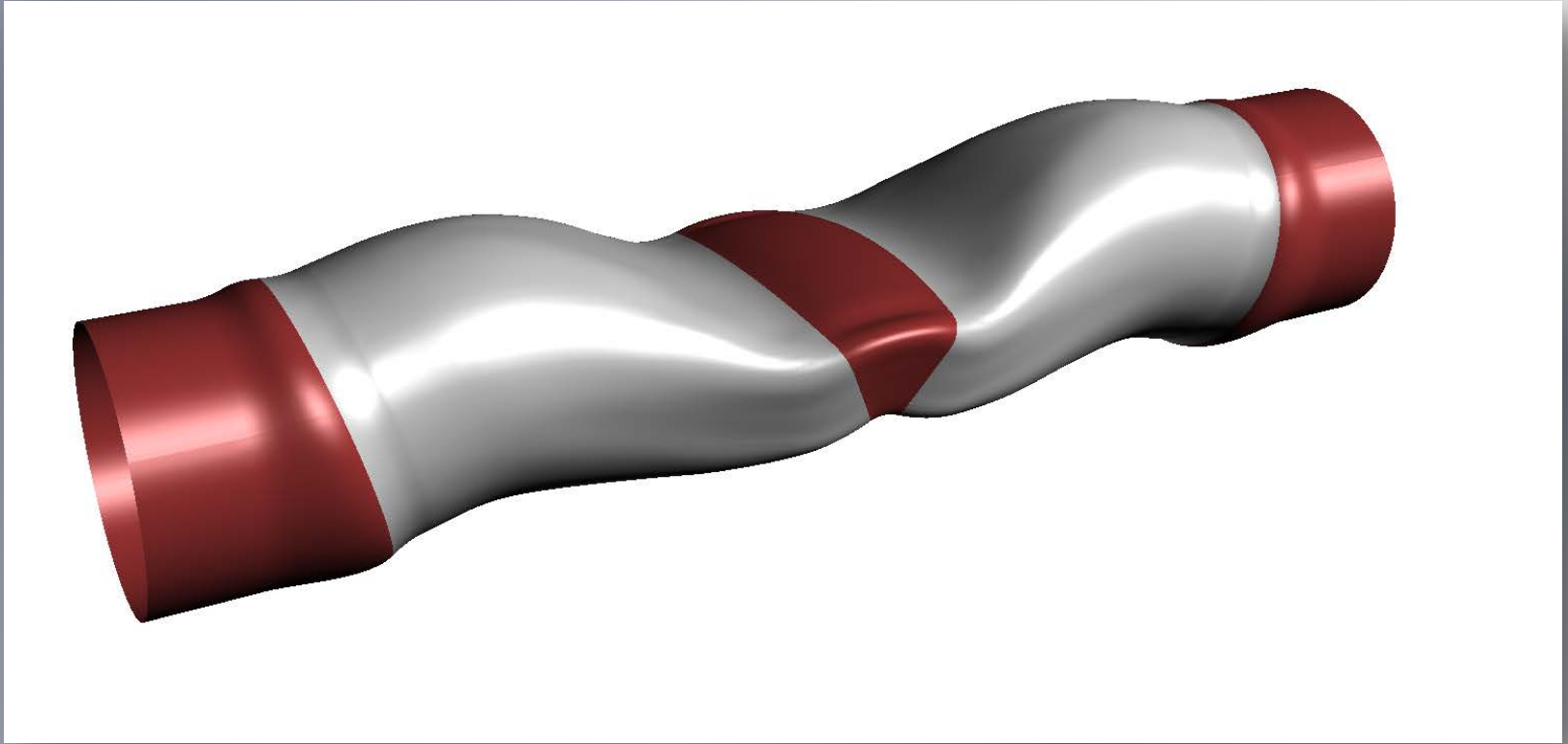
High Energy Hydroforming

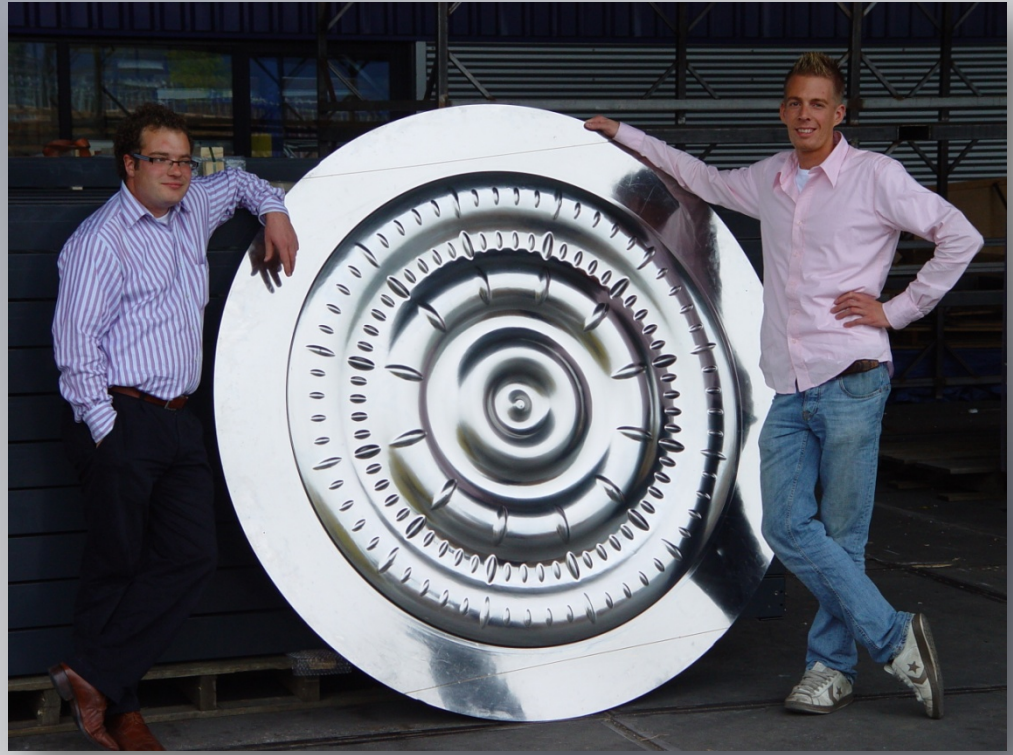


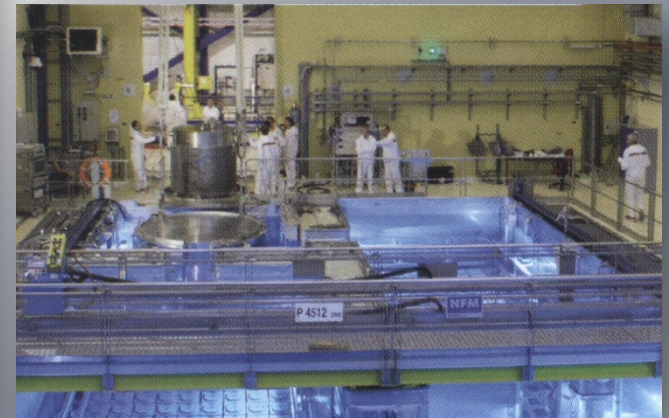
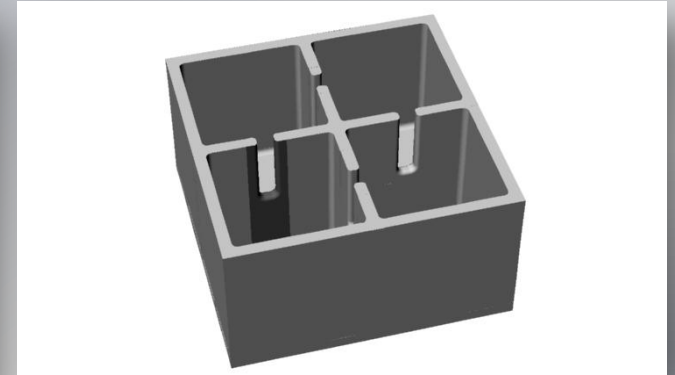
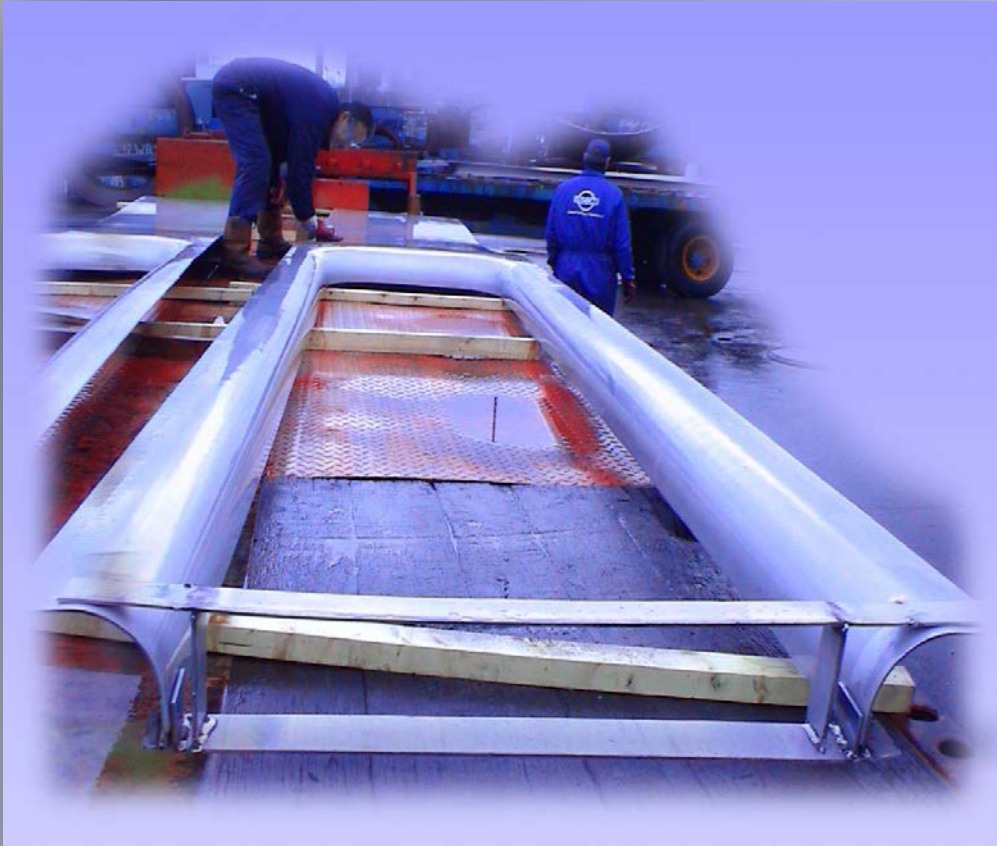














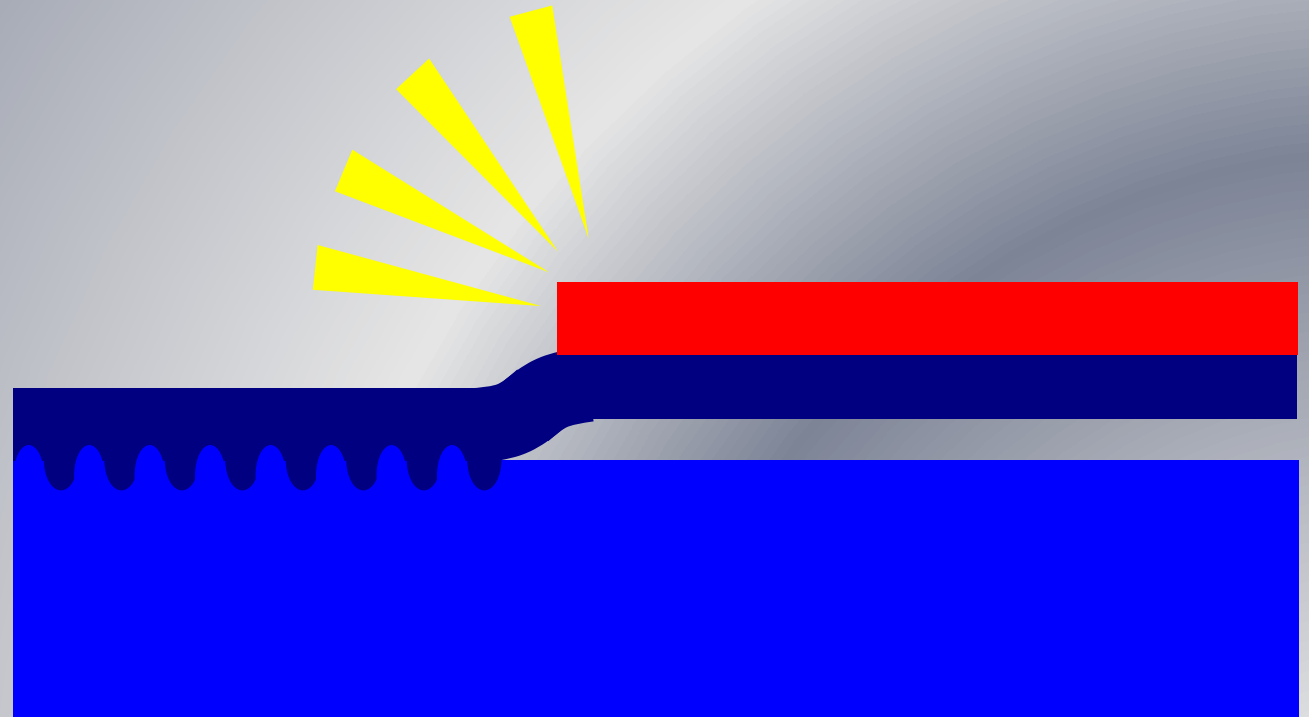
**Than we got
a visit from
EFDA...**



Developed: how to form a large, thick plate

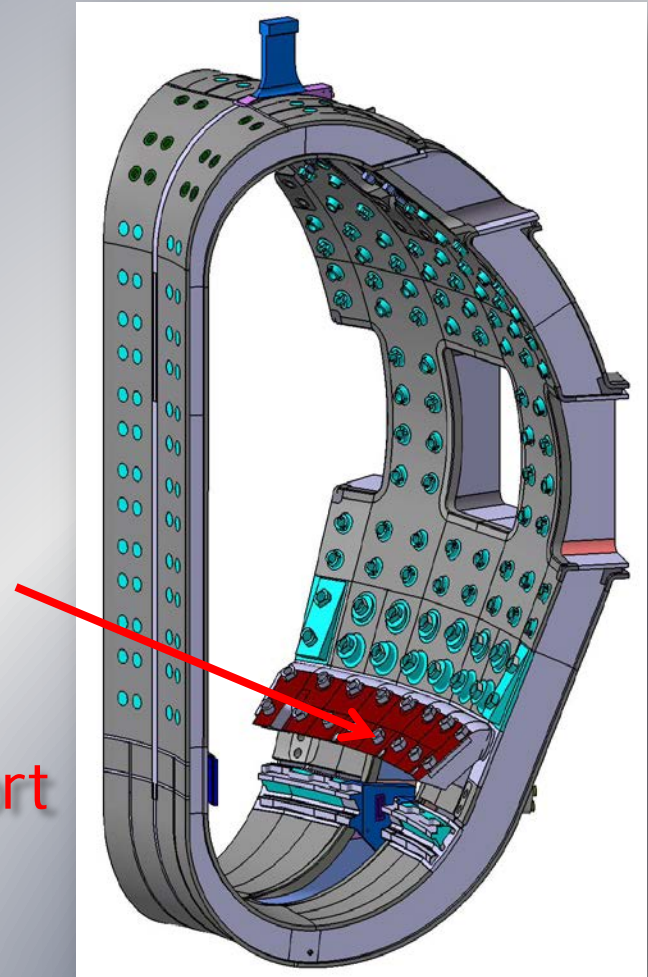


And we developed explosive bonding...





copper cladding on Triangular Support





We have put a lot of efforts in these developments.

But...

the Italian consortium selected another forming technology

And IO changed the design without the copper cladding.



ENERG

**PHYSICIST'S
DREAM,
ENGINEER'S
NIGHTMARE?**

**THURSDAY
OCTOBER 30 2014
BLAUWE ZAAL, TU EINDHOVEN**

PROG

9.30-1
COFF

10.00
ITER,
DR. IR.

10.45-
SPIN-
IR. H. C.

11.00
FUSIC
PROF. D.

11.45
SPIN-
DR. E.

12.00
LUNC

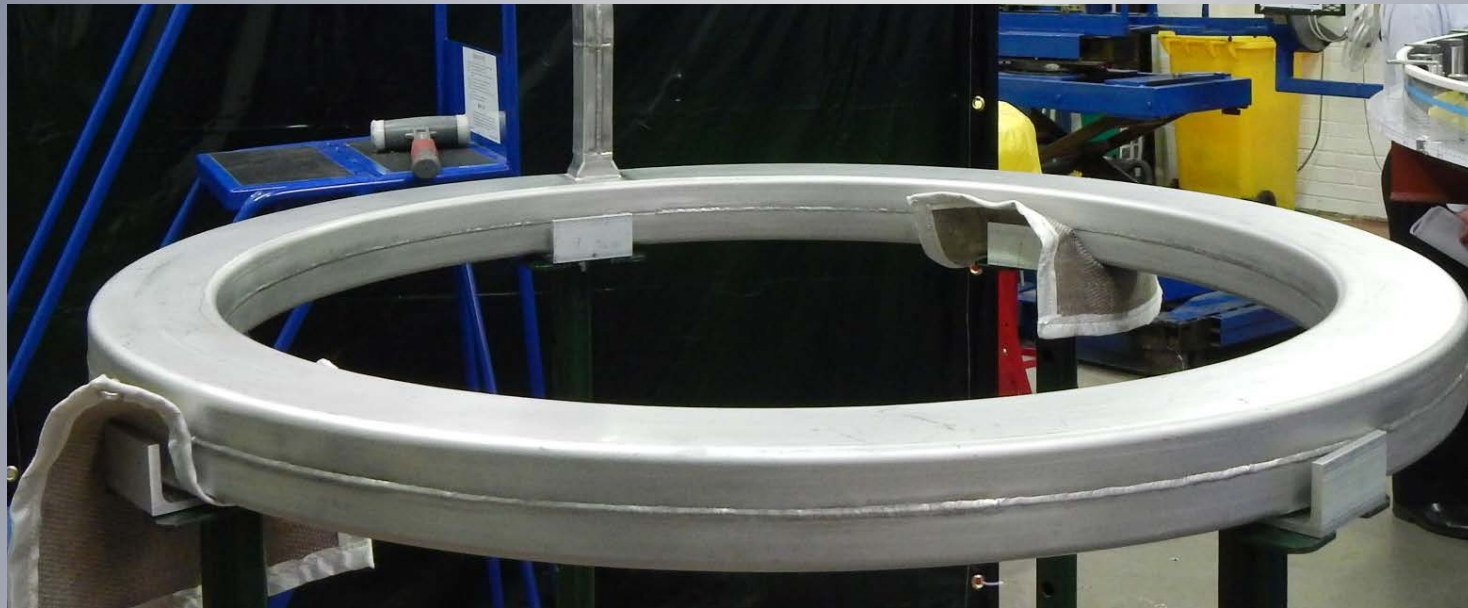
13.30

Indeed!



On the other hand:

- Now thick, large plates can be formed**
- new analysis methods: FEM software, photogrammetry etc.**
- new customers, new applications!**



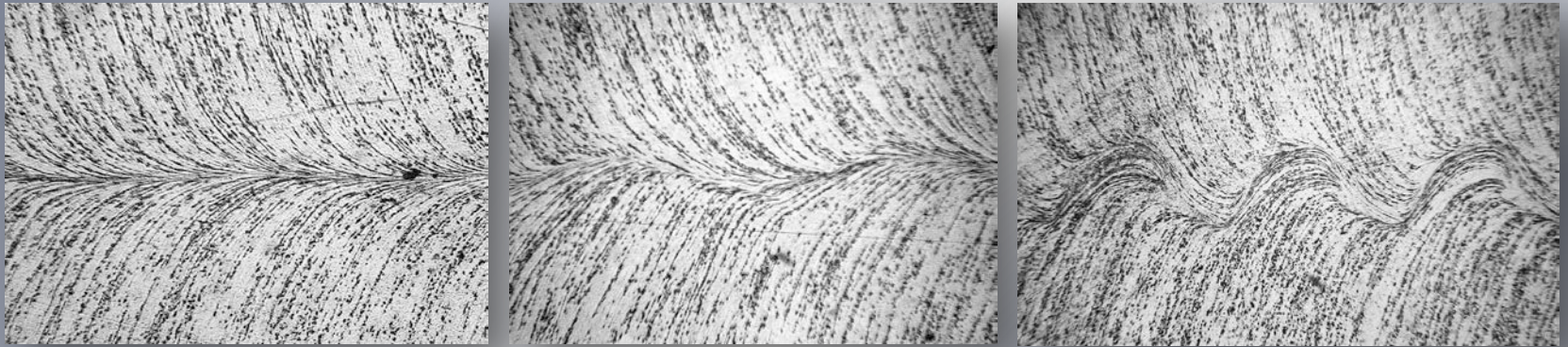
Coil cans (MAST)



UHV cap segments (CERN)

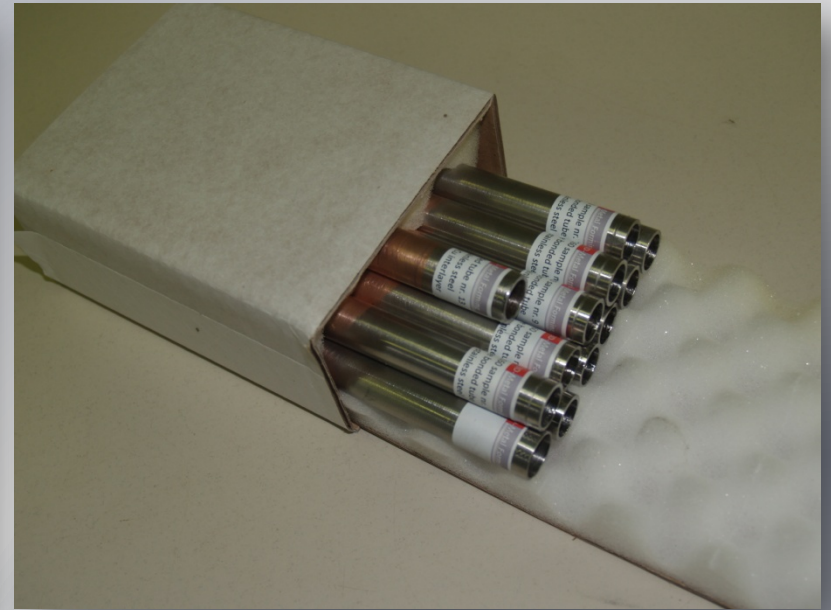
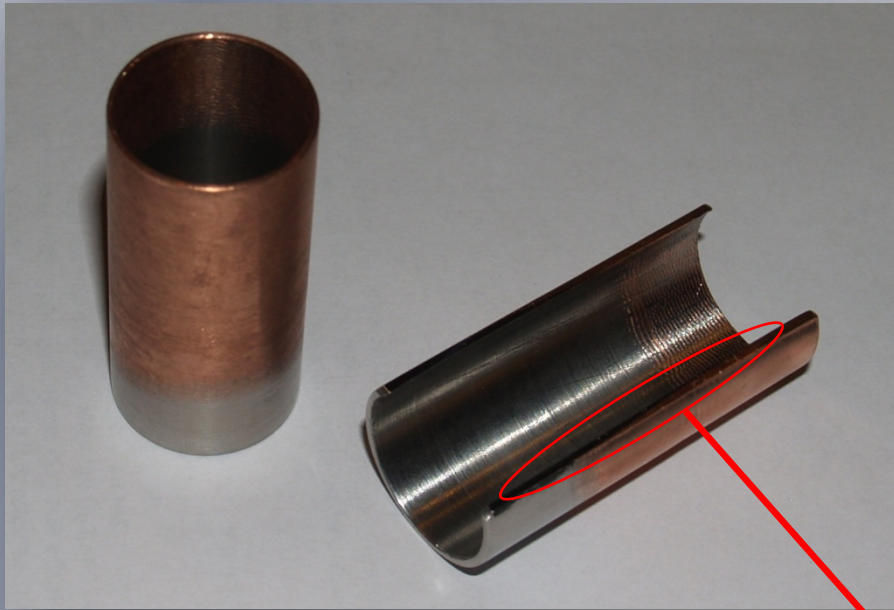


4 mm niobium (European Spallation Source)



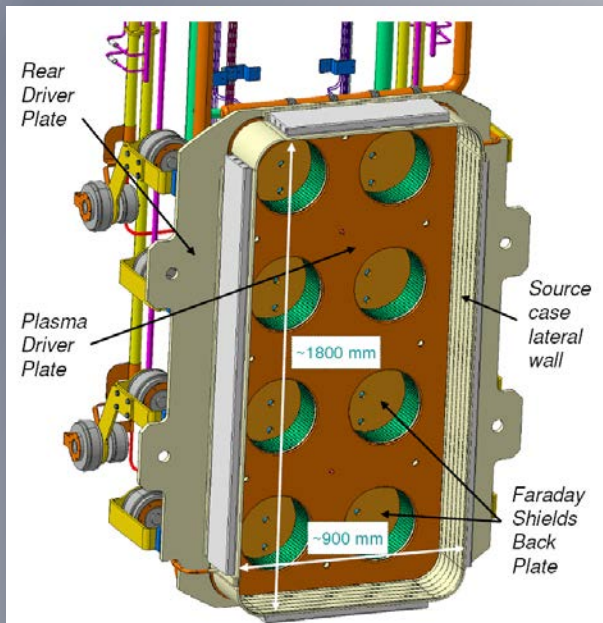
Shapes of interfaces (research for NRG)

stainless-copper tube (cross section)

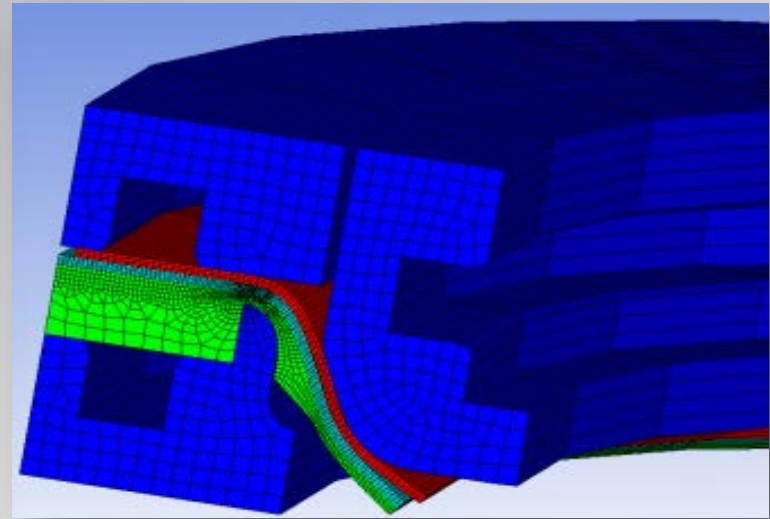
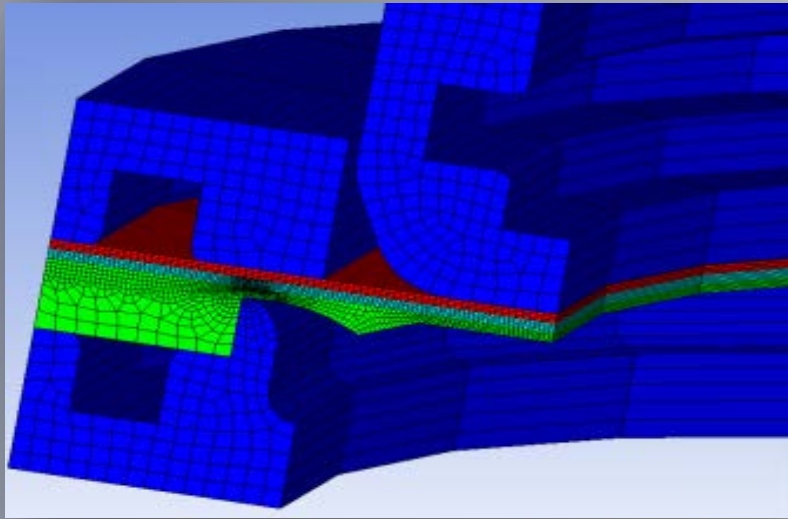


Stainless-copper transition

Cu-Mo bonding and forming for Mitica Driver Plate (Neutral Beam Injector)



Cu-Mo bonding and forming for Mitica Driver Plate (Neutral Beam Injector)



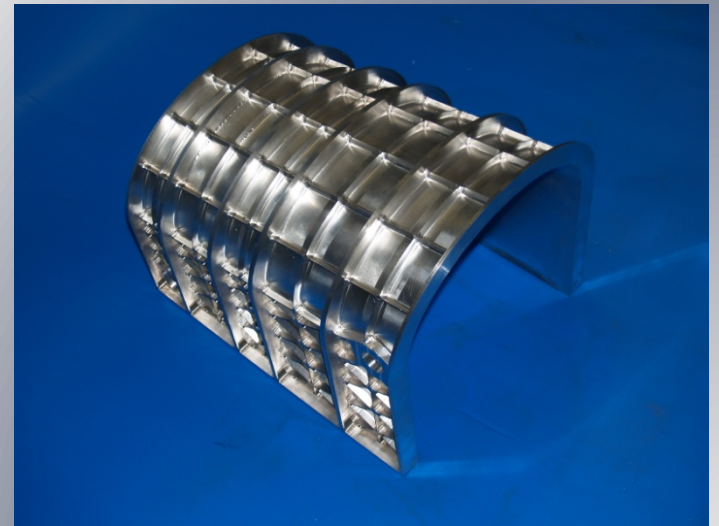
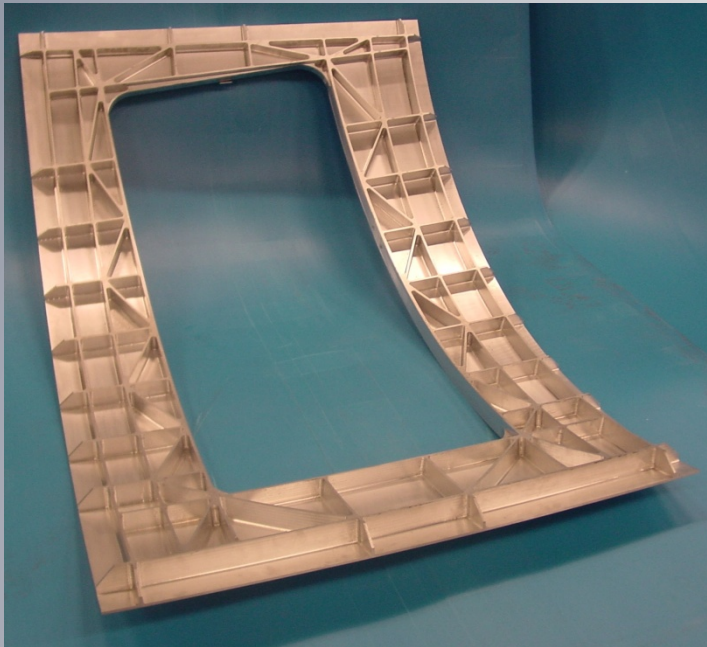


Integrated cockpit





Integrated structures





...made possible by the ITER project...

Thank you for your attention

The logo consists of a horizontal bar with a red left section and a white right section. The red section contains a stylized graphic of three concentric, semi-transparent circles. The white section contains the text "3D-Metal Forming" in a white, sans-serif font.

3D-Metal Forming