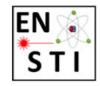


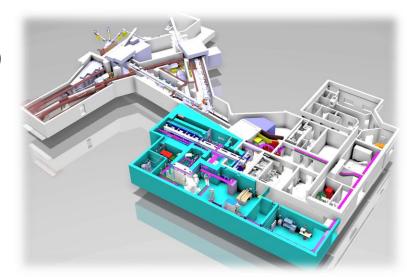
MEDICIS Facility Report during LS2

MEDICIS run coordinator: Charlotte DUCHEMIN (Joined the team on 1st of August 2019) *Predecessor: Joao Pedro RAMOS (until mid-July 2019)*









My Background

PhD Thesis

SUBATECH/ARRONAX Nantes, France

Production of innovative radionuclides for medical applications

2012-2015

2015-2016

Teacher/Researcher

SUBATECH/ARRONAX University of Nantes, France

Senior Fellow at CERN

Radiation Protection group

Clearance of historical waste (LEP)
& activation studies

2016-2019

Since 1st of August

50% Post-doctoral research fellow at KU Leuven

50% MEDICIS run coordinator

The CERN accelerator complex long shutdown n°2 **CMS** Running offline with external sources provided by ILL and ARRONAX 1HCb AWAKE 2016 **Injectors** IRRAD/CHARM **Injectors Injectors Technical stop**

MEDICIS Facility overview 2019



- Test of vials opening
- Montrac® monorail system maintenance
- Water cooling on MEDICIS frontend
- MEDICIS storage shelves

- Commissioning of the fume hood
- Extraction electrode replacement:

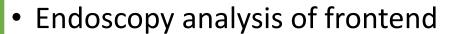
new concept validated after repeatability tests



MEDICIS Facility overview 2019

- Ventilation
- Robot
- Test of sample transfer
- Laser MELISSA





• Extraction electrode mechanical issue Delay until beginning of July





MEDICIS Facility overview 2019

- Reception of new electrode, installation and offline tests
- 26th of June beam permit signed by EN-STI group leader



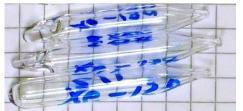
• 2nd of July : first collection from external sources



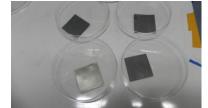








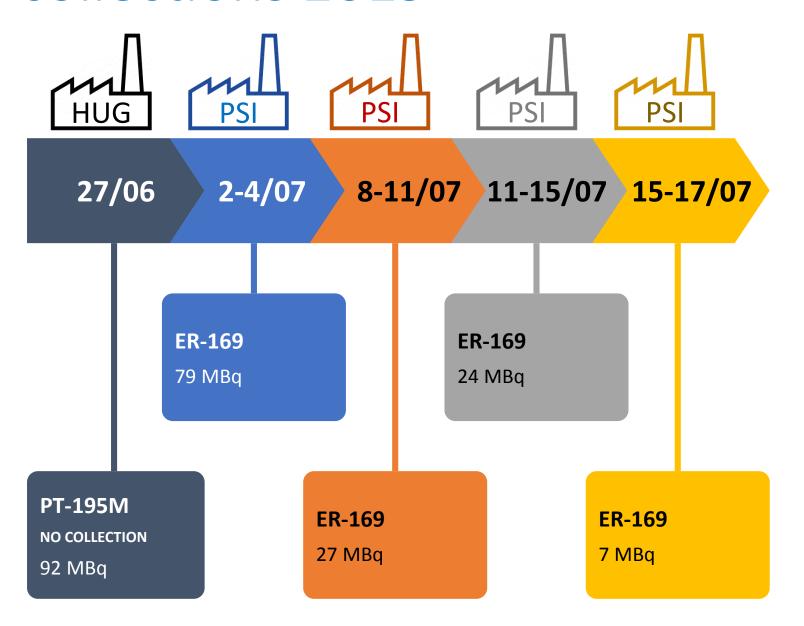




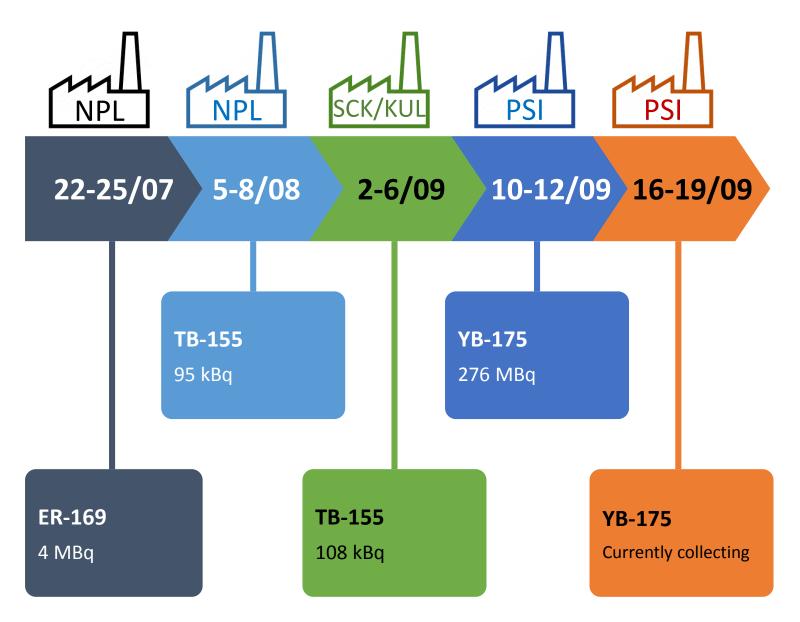
MEDICIS

Limited Irradiation Permit Approved

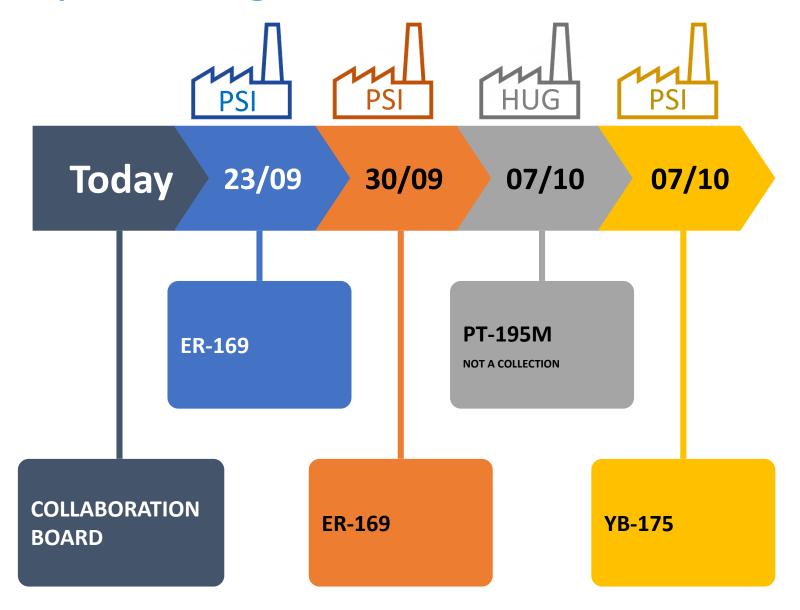
MEDICIS collections 2019



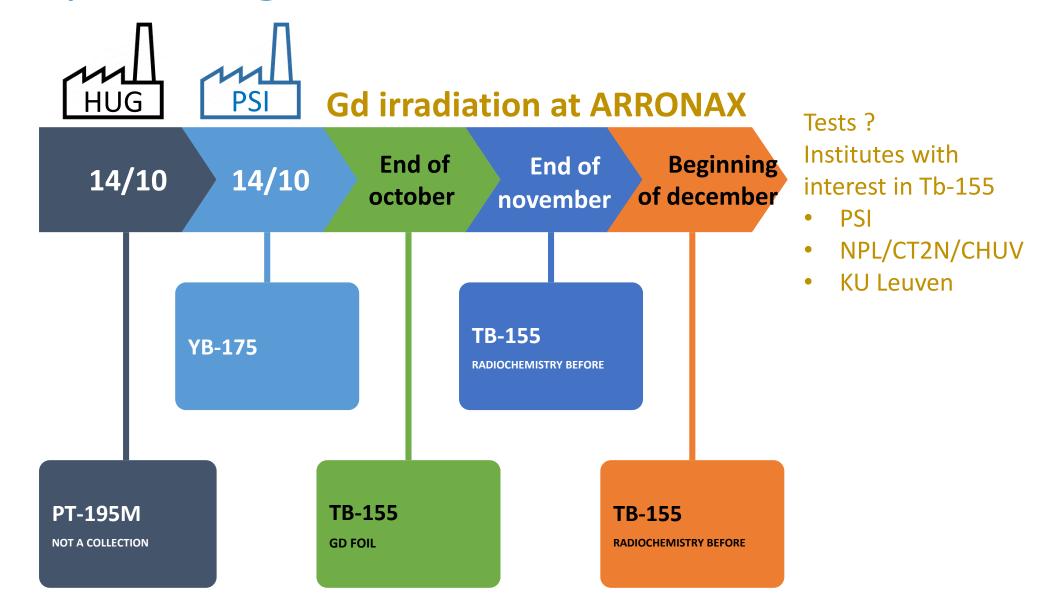
MEDICIS collections 2019



MEDICIS upcoming collections 2019

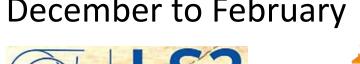


MEDICIS upcoming collections 2019



MEDICIS outlook 2020

• MEDICIS technical stop foreseen from end of December to February



LS2 continues next year – no proton beams



Need of external sources provided to MEDICIS next year



- ILL in shutdown until mid-2020
 - Last irradiation for MEDICIS is ending on 4th of October 2019
- ARRONAX is our only source of Tb-155 for next year



MEDICIS local team and collaboration



Project management



Operational RP and safety



Engineering, Target assembly and handling



LASER, Robot, Operations and Controls



Collaboration institutes



γ-spectrometry and shipping



Radiochemistry



MEDICIS Promed



Thank you!