

# Who Am I?

## EDUCATION AND TRAINING

**September 2018 - July 2019**

Master's in Nuclear Physics.  
University of Seville, Seville (Spain)

**September 2013 – February 2018**

Bachelor's Degree in Engineering Physics.  
Polytechnic University of Catalonia.

## WORK EXPERIENCE

**September 2017- August 2019:** REP Experiment

UPC, Polytechnic university of Catalonia, September 2017

**September 2018:** ASCO's Power Plant.

UPC, Polytechnic university of Catalonia.

**Sept 2016 – Sept 2017:** Technical Student.

CERN, BE-BI-PM.

**Dec 2014 – Aug 2016:** Neutron Spectrometry.

Polytechnic university of Catalonia



Araceli  
Navarro  
Fernández

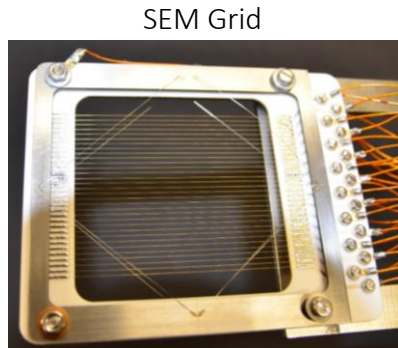
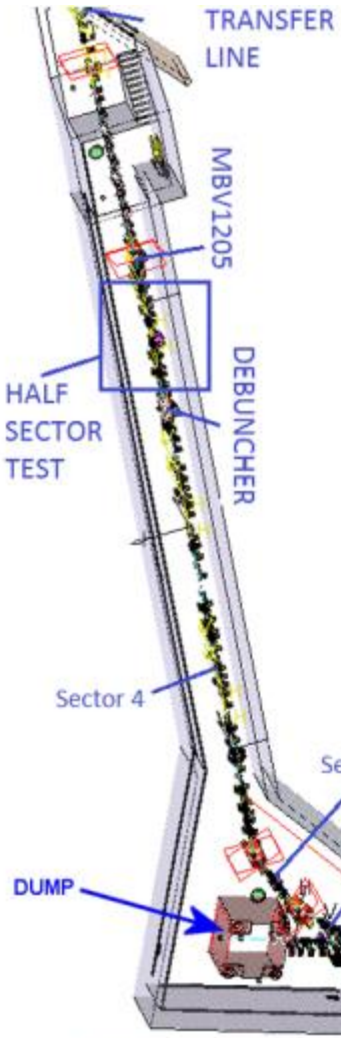


# What Am I doing at CERN?



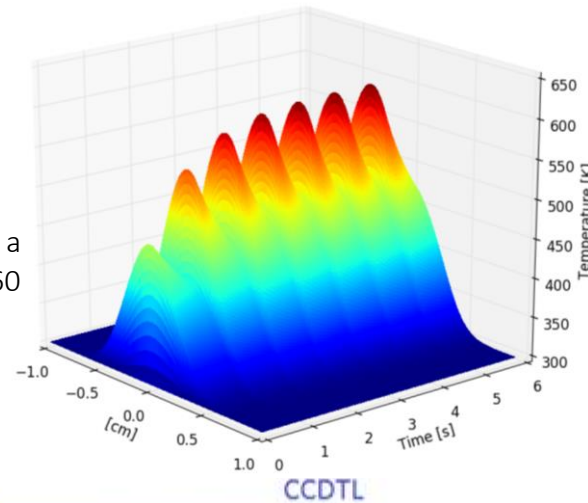
# PhD!

Understanding secondary emission processes and beam matter interactions for optimization of Diagnostic Wire Grid Systems in particle accelerators.

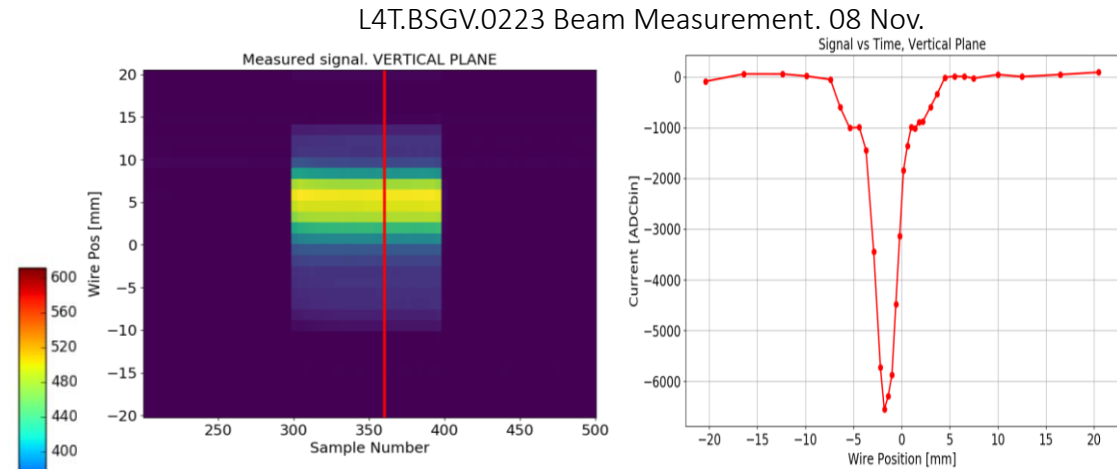


SEM Grid

Simulation:  
Geant4, Fluka, COMSOL, etc.  
Develop own tools.



Temperature evolution of a tungsten wire due to 160 MeV proton beam.



Real Measurements and Data Analysis.

Fig 1: Schematic representation of LINAC 4.

~76m