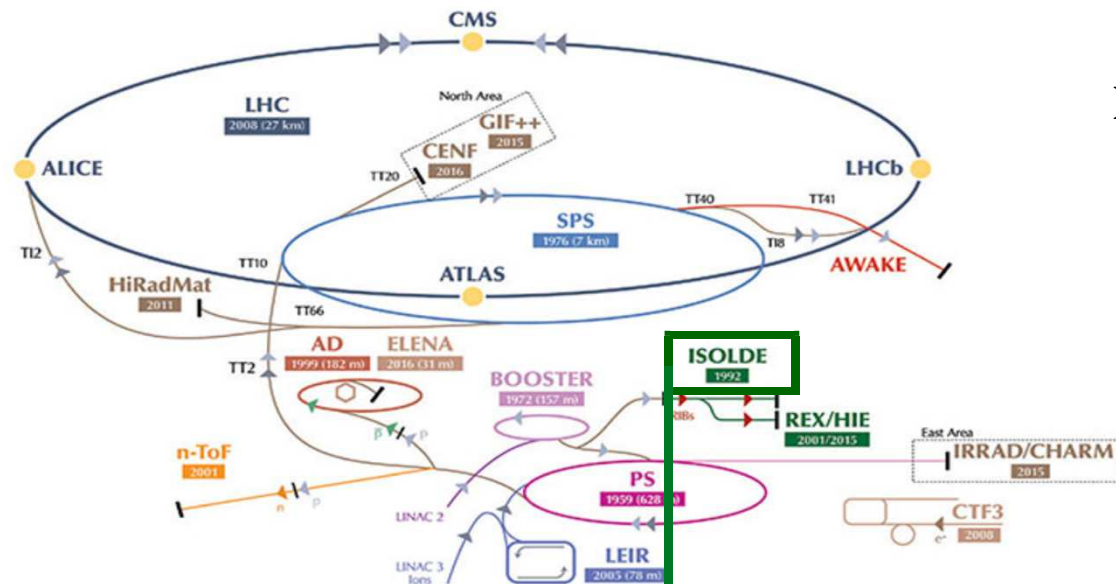
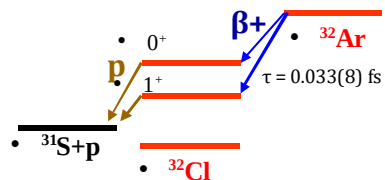
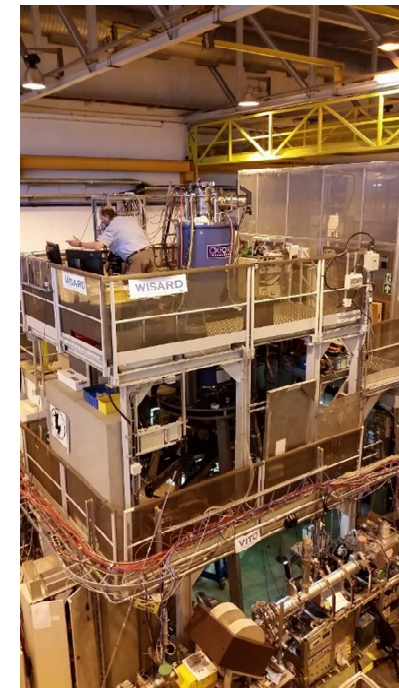
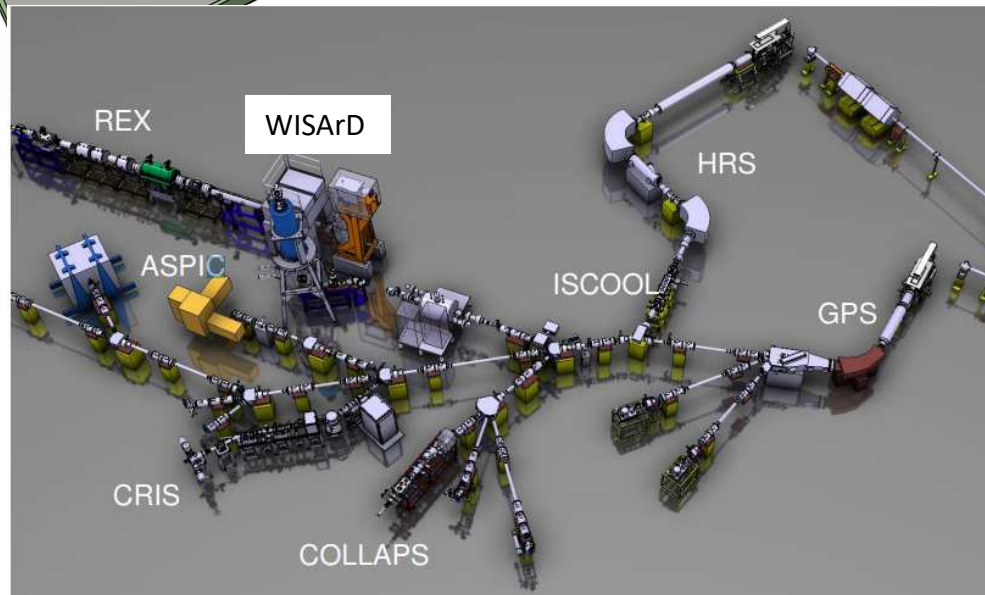
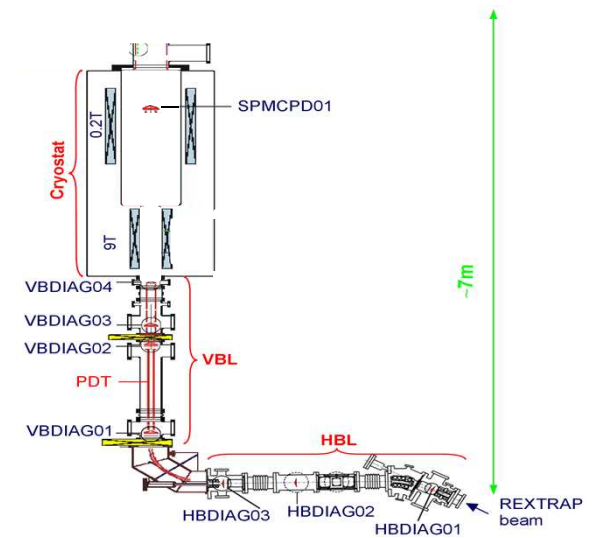
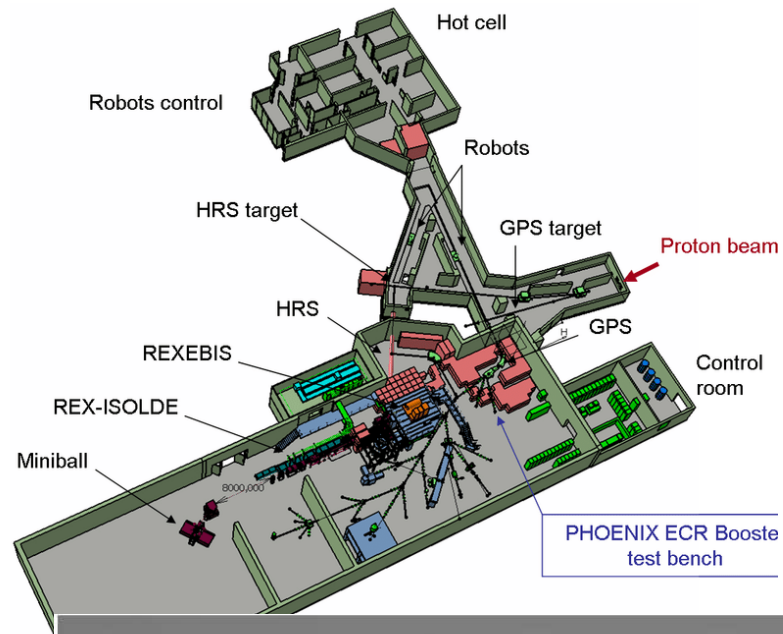


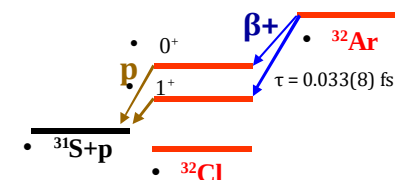
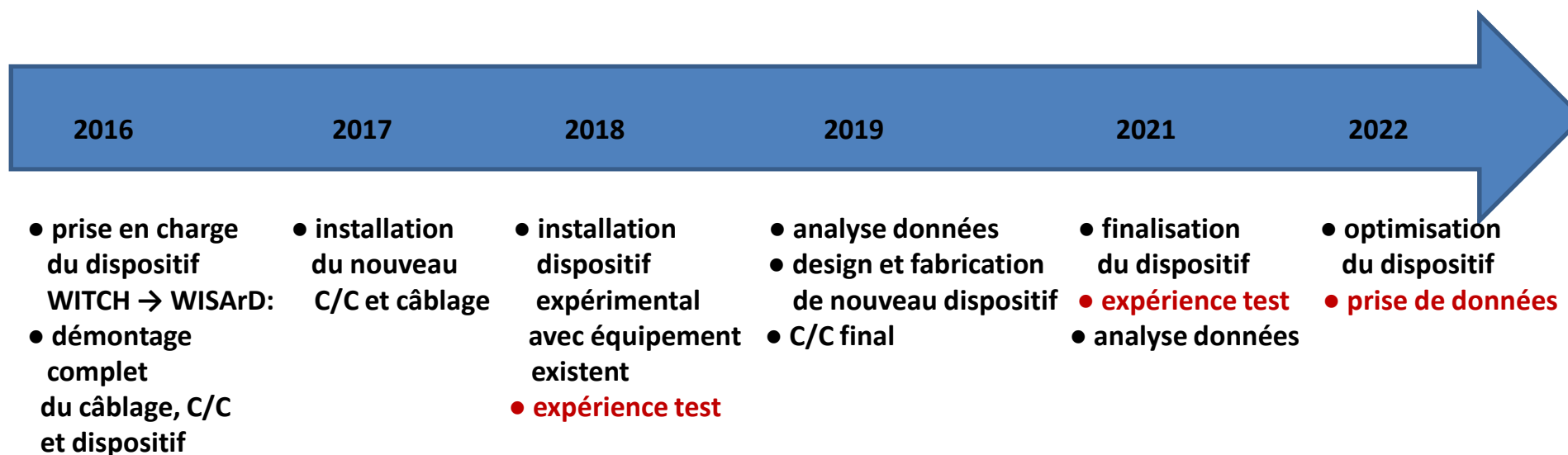
Expérience d'interaction faible avec ^{32}Ar Décroissance (WISArD)

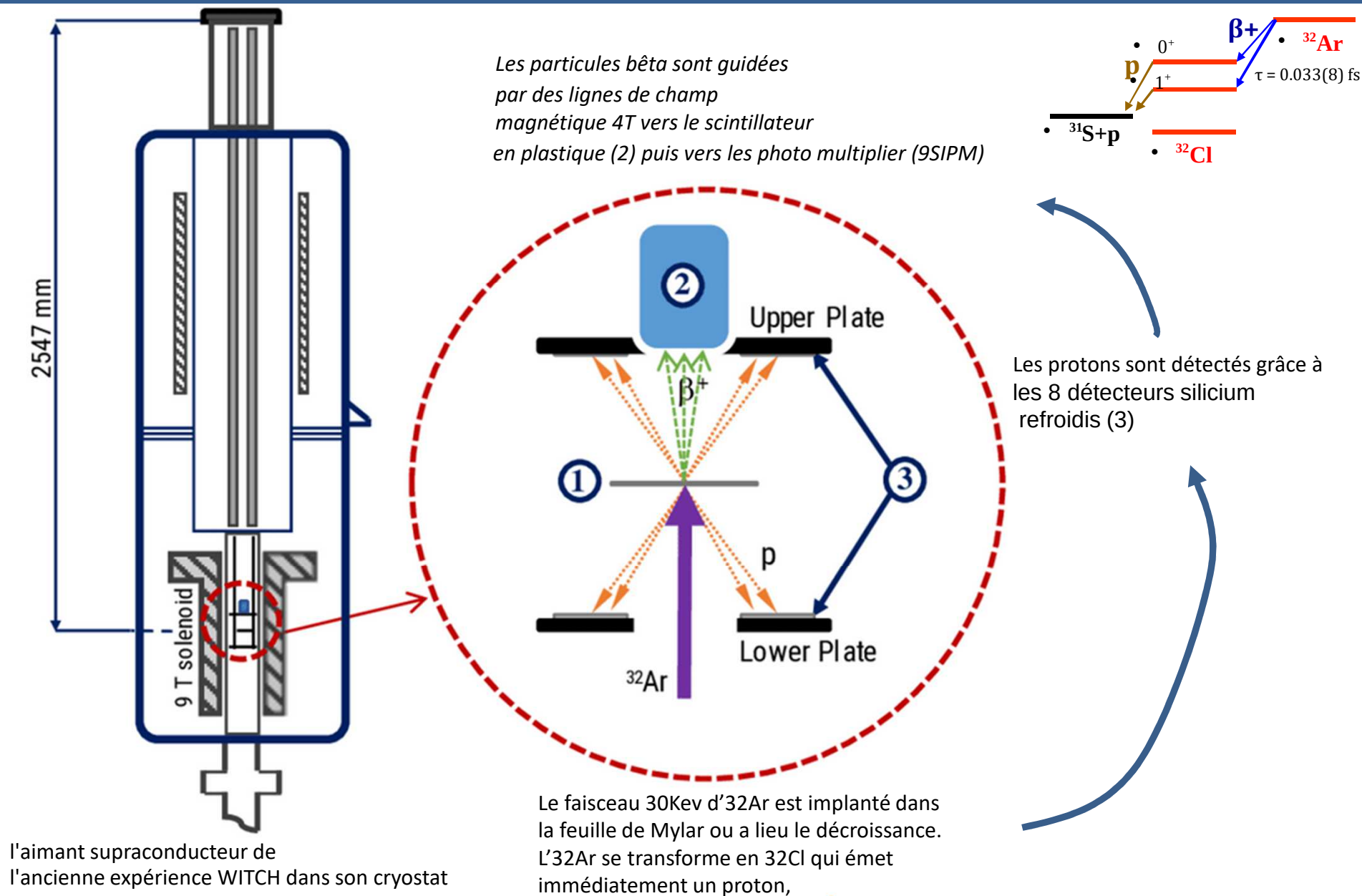


Le montage est placé à l'intérieur de l'ancien aimant supraconducteur WITCH









contraintesUtilisation $B=4\text{Tesla}$ Refroidissement $= -20^\circ\text{C}$ Sous vide $= 10^{-7}\text{mbar}$

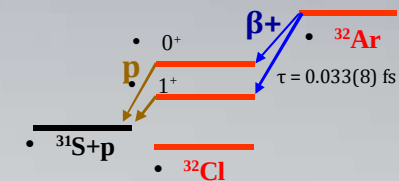
Encombrement diam max 130mm

A 2,50m au milieu de l'aimant

8 Silicon detector

*Pour detection "Proton
meilleure resolution (-20°C)*

Carte électronique développée par LPC Caen

Scintillateur Plastique
Silicon photo multiplier
(9 SiPM)*Detection Beta
Gain stable (-20°C)*Faisceau radioactif ^{32}Ar 

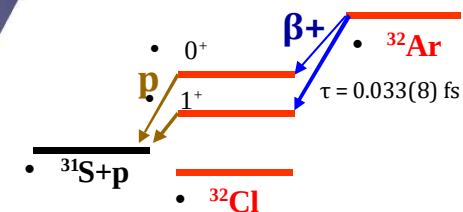
Détection Beta

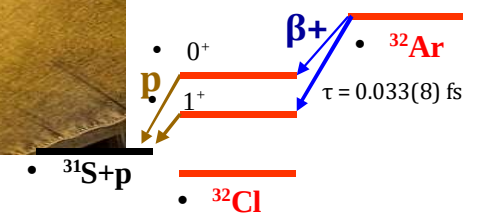
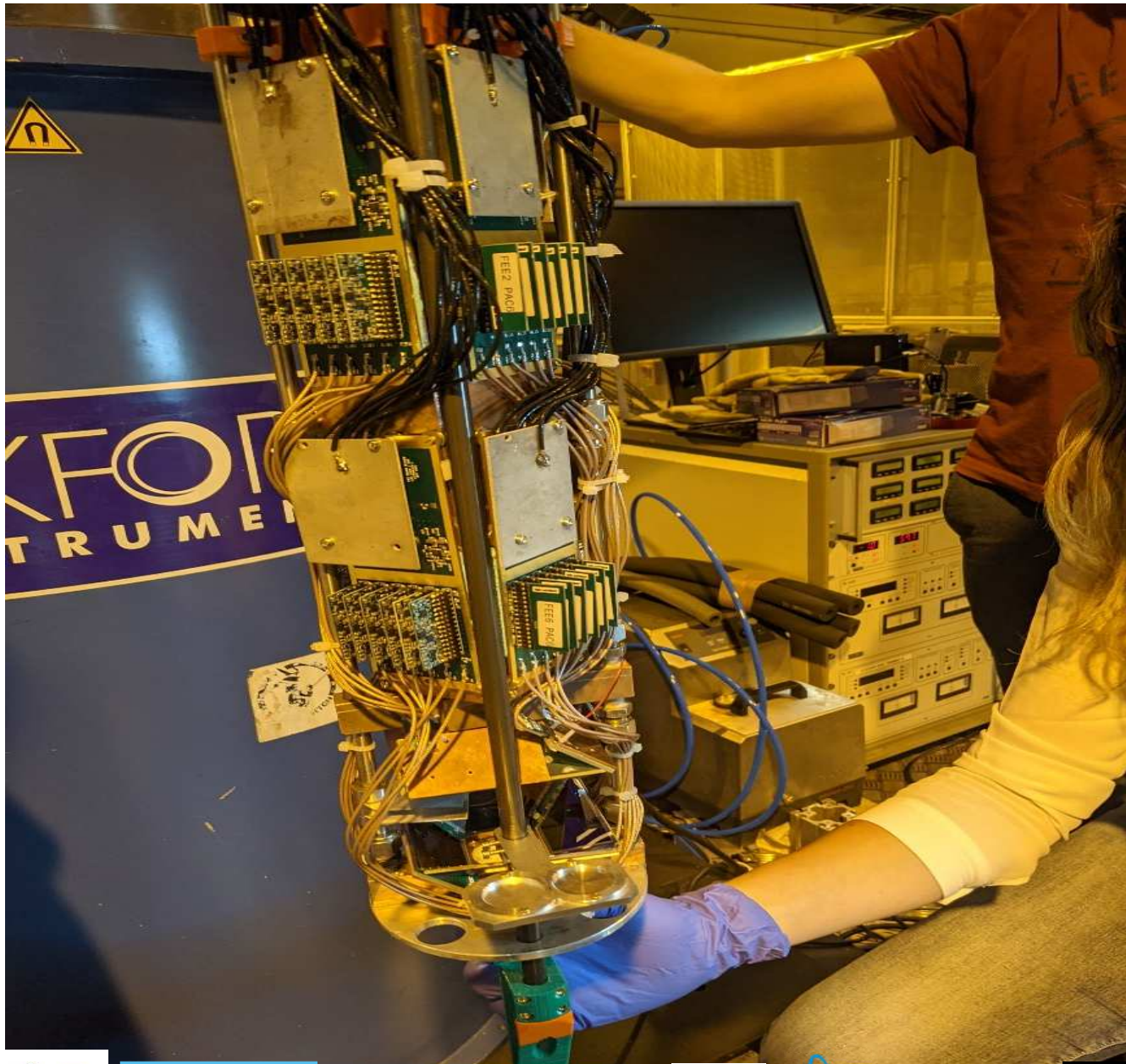
(développé par NIPNE Bucarest)

Silicon photo multiplier
(9 SiPM)

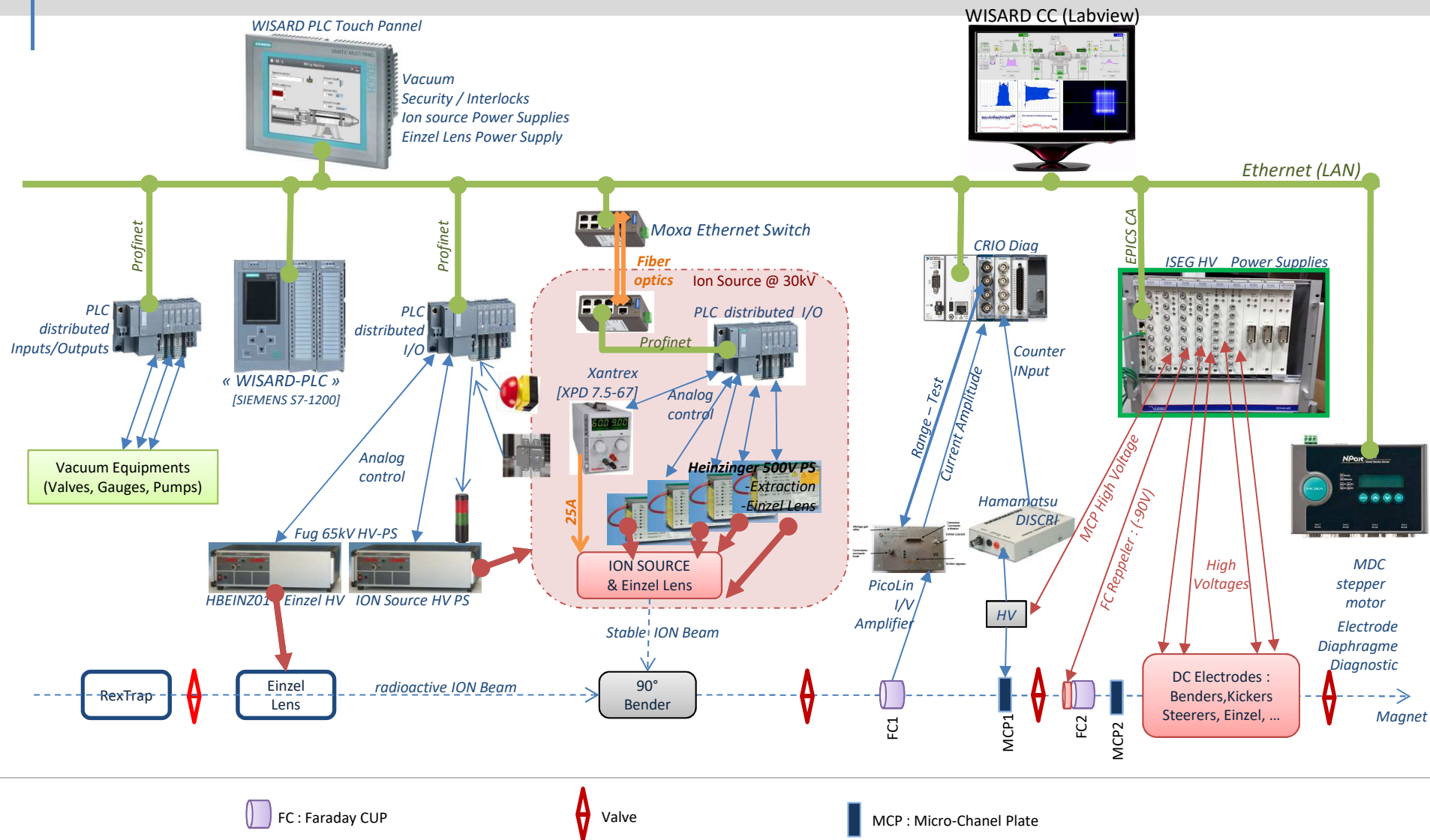
Scintillateur plastique

Pré-ampli

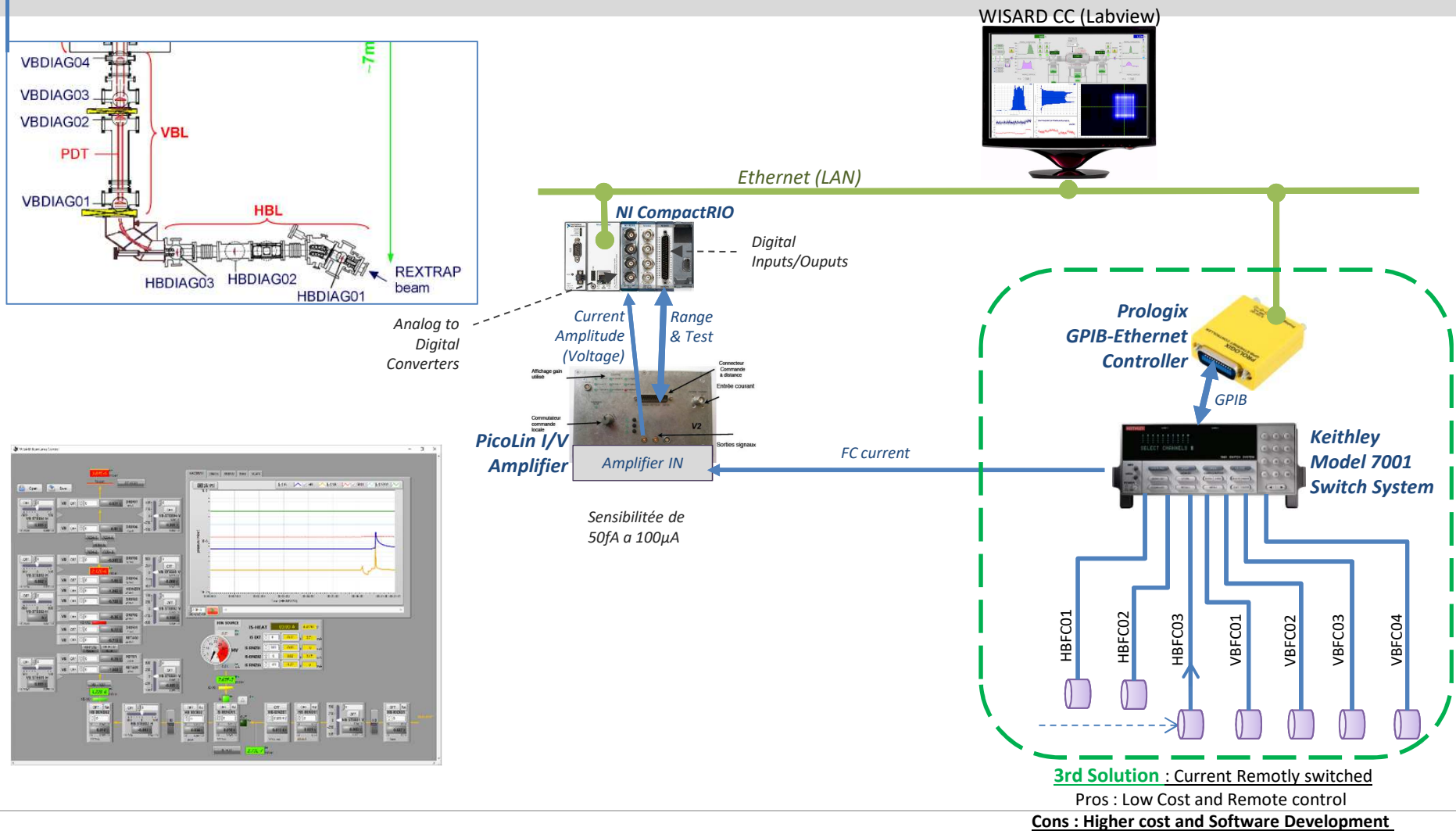




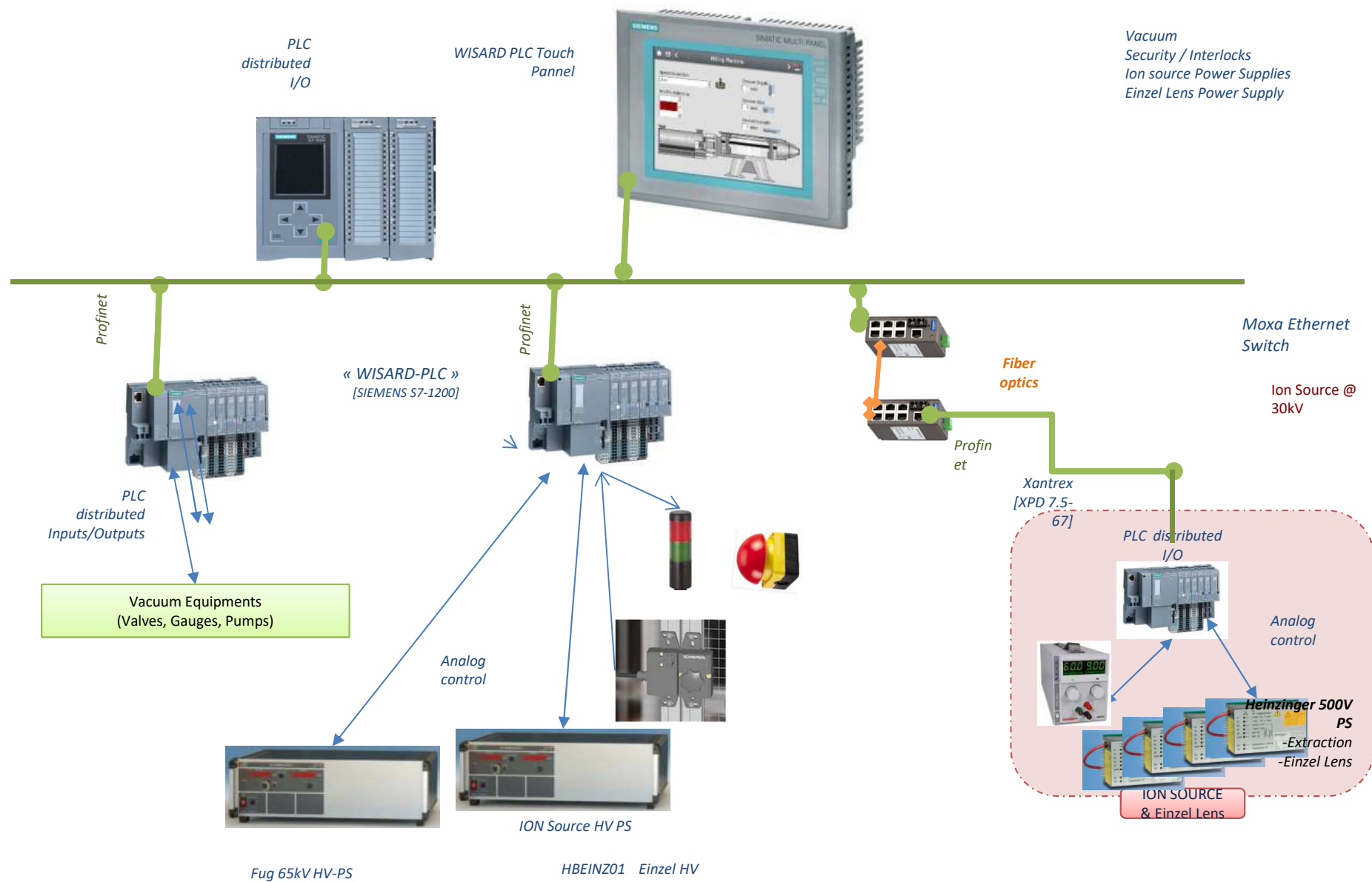
WISARD Ctrl/Cde Architecture



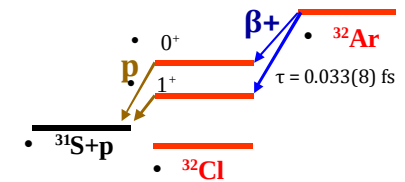
7 FC Current Control & ReadOut : Solutions proposed



FC : Faraday CUP



Merci



coordinator: Nathal Severijns (KU Leuven)
coordinator: Bertram Blank (CENBG)



technical



Philippe Alfaut : CENBG (vacuum, PLC, instrumentation)
Laurent Daudin : CENBG (instrumentation)
Laurent Leterrier : LPC Caen (electronics)
Mathieu Roche : CENBG (mechanical)

physicists



Dalibor Zakoucky : NPI Rez



Jerome Giovino : CENBG

Maud Versteegen : CENBG

Xavier Fléhard : LPC Caen

→ **Groupe NEX**

PhD students



Federica Cresto (LPC Caen/CENBG)



Simon Vanlangendonck (KU Leuven)

post docs



Dinko Atanasov (CENBG)



Marcin Pomorski (CENBG)

