

# Cours

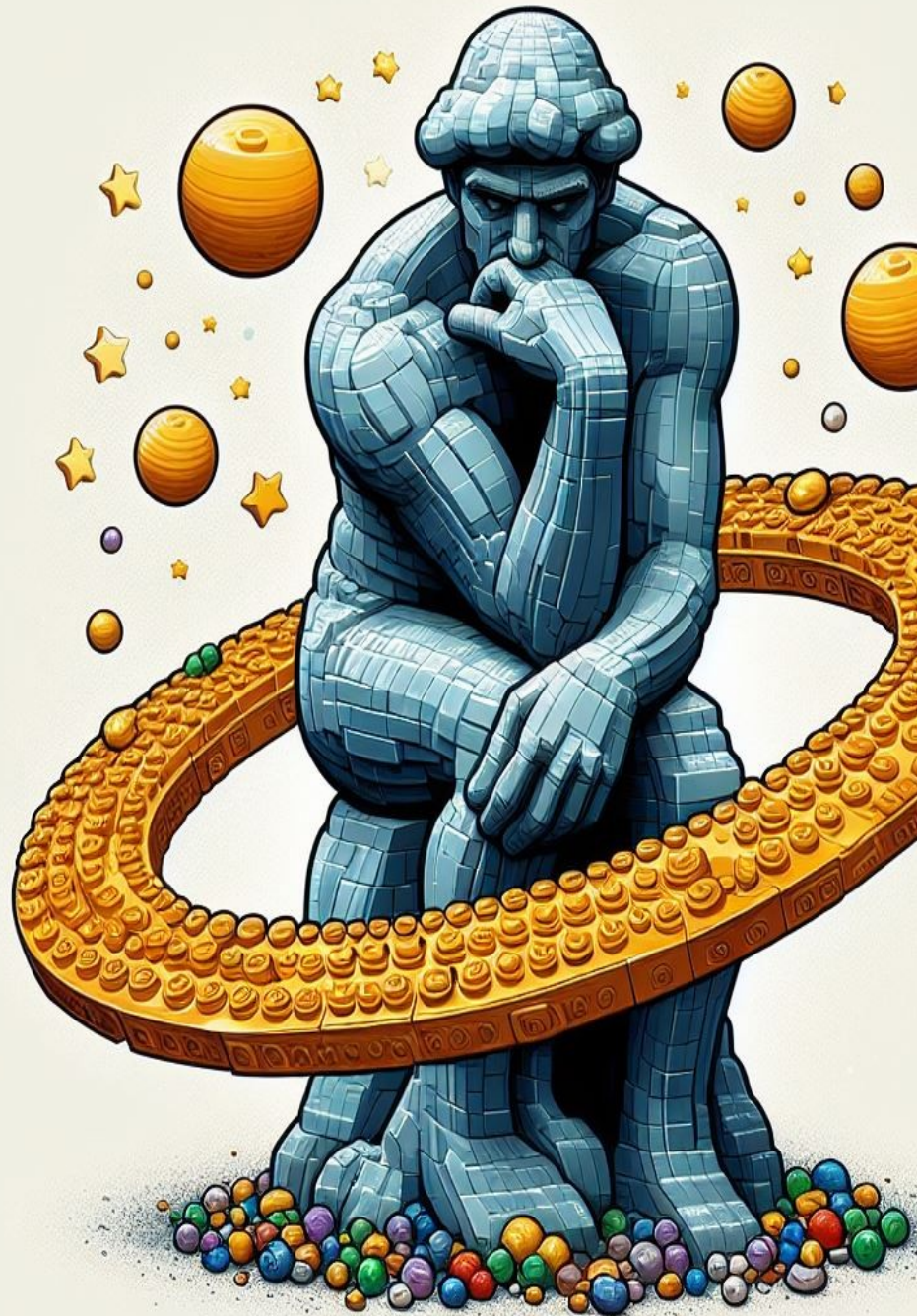
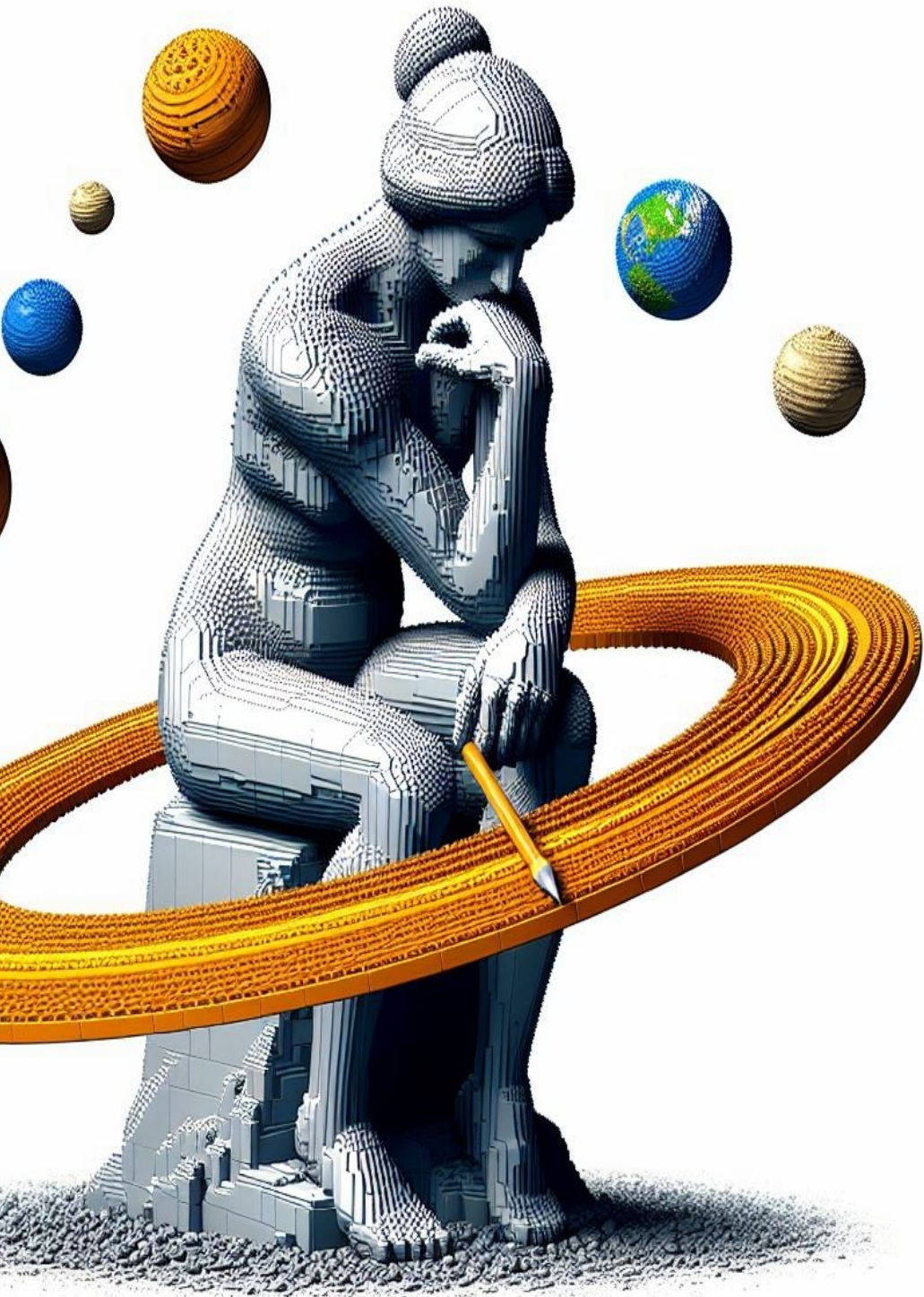
# Détecteurs gazeux

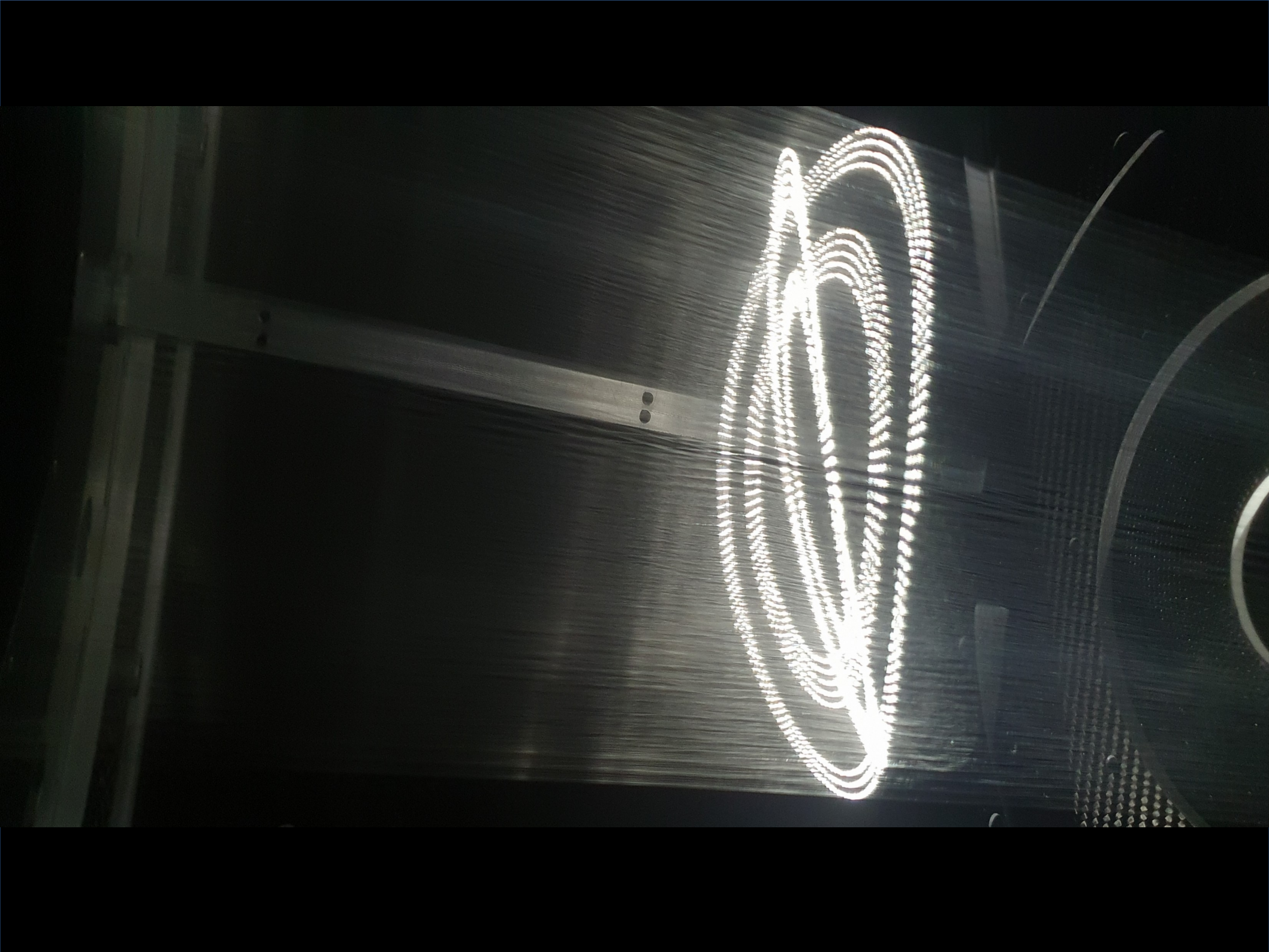
**Pour l'ANF Techniques de Base des Détecteurs**

**2024**

**Gabriel Charles**







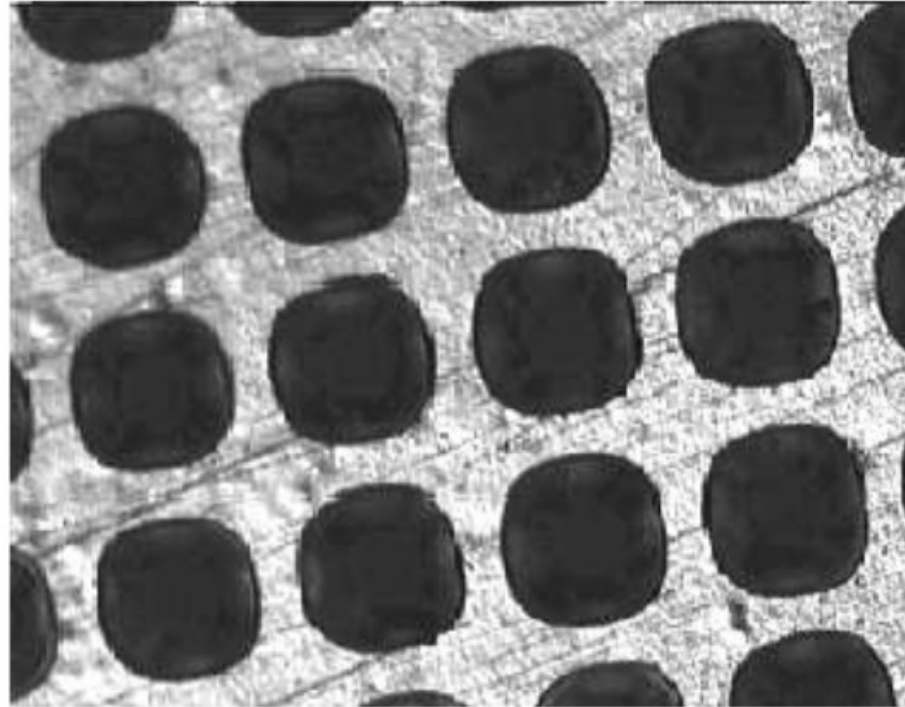
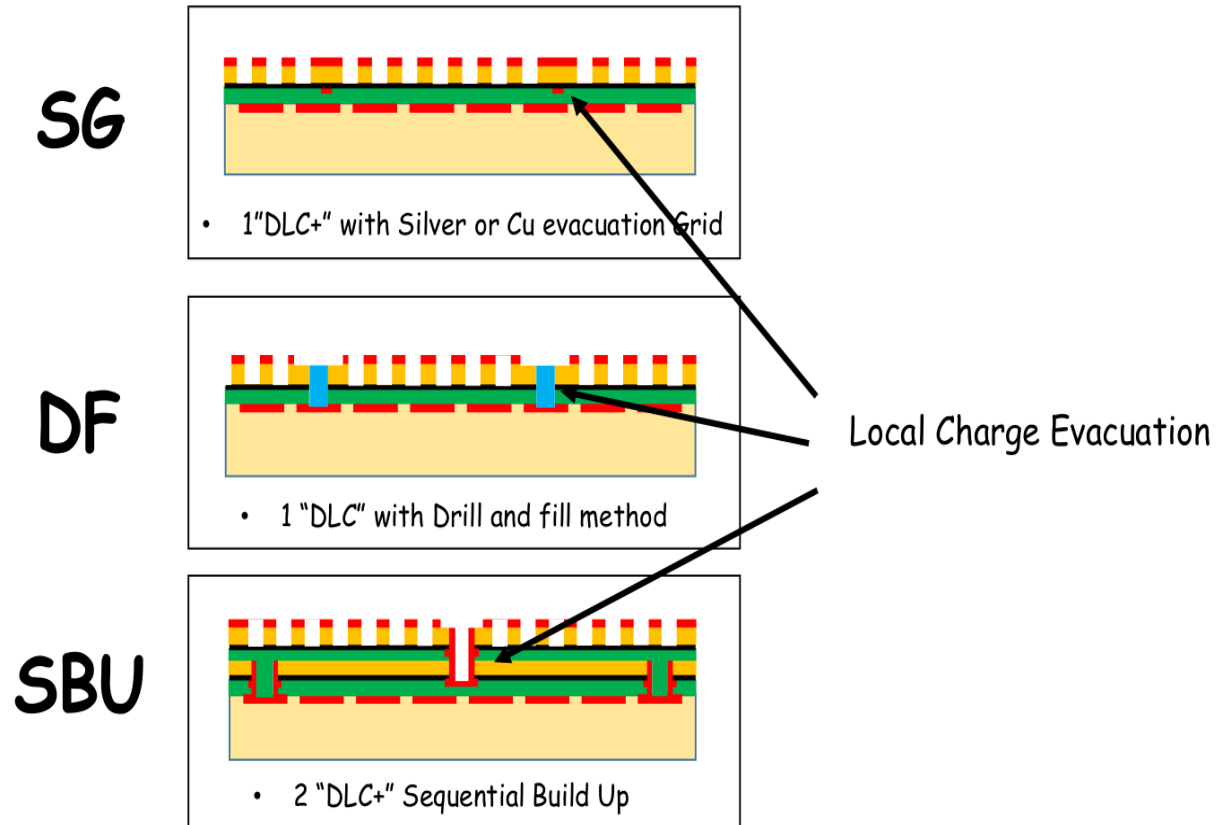
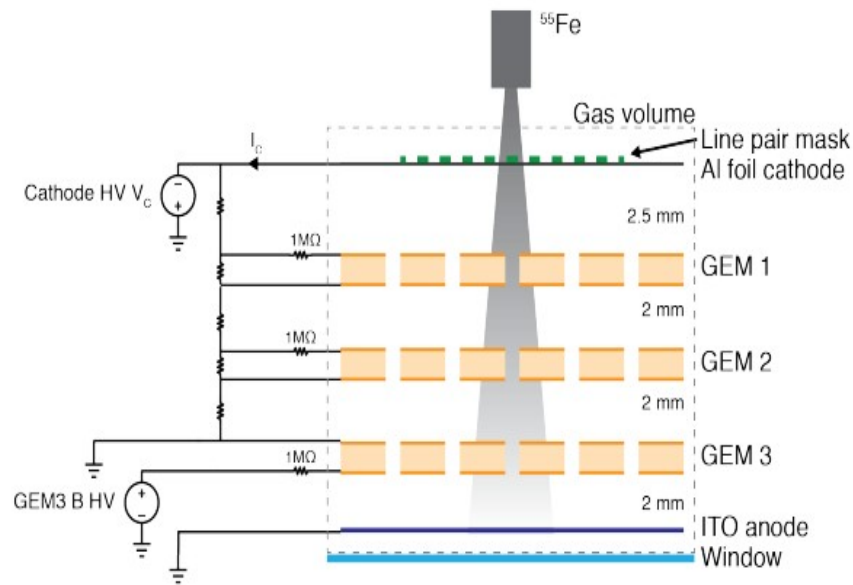


FIGURE 1.13 – Vue au microscope d'une feuille de GEM.

## Different high rate $\mu$ Rwell structures



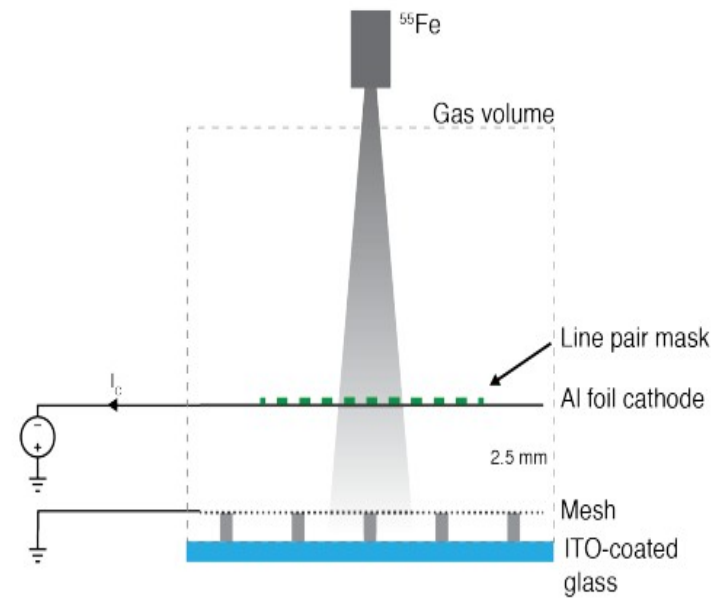
## Triple GEM (thin GEMs)



50mm f/0.95 lens +  
collimating lenses

EMCCD camera

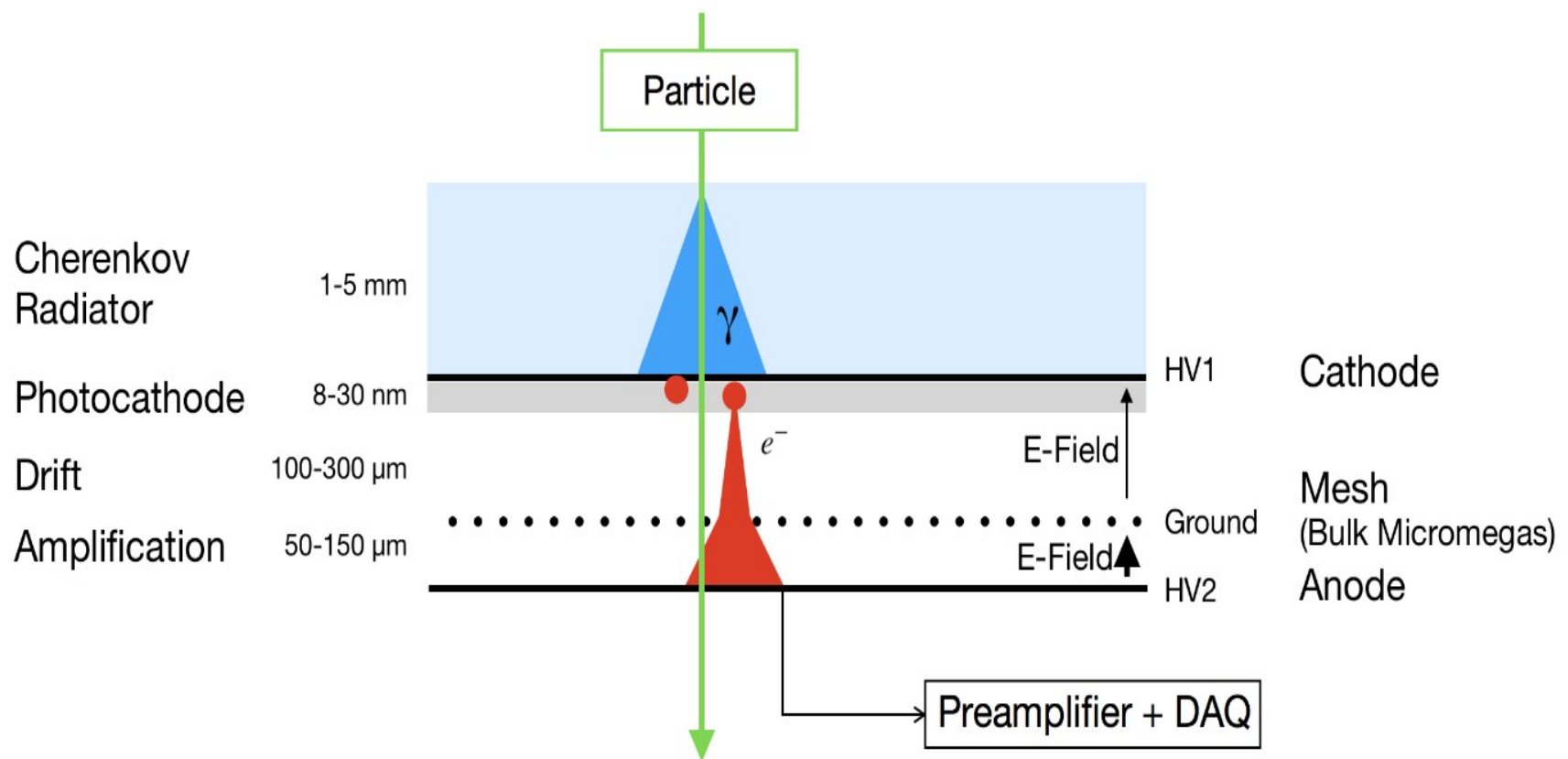
## GlassMM (DLC mesh)



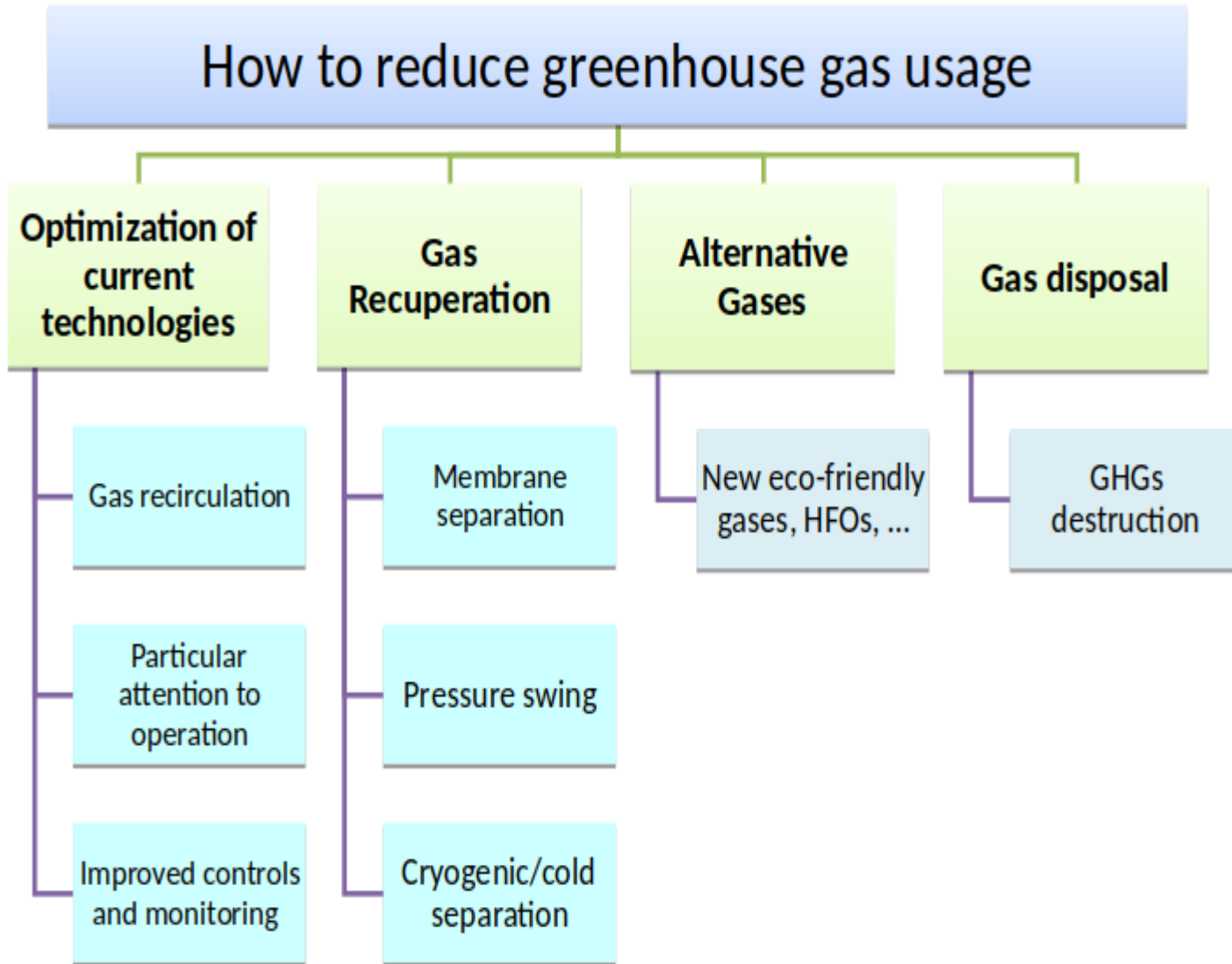
50mm f/0.95 lens +  
collimating lenses

EMCCD camera

Source : F. Brunbauer, <https://gdd.web.cern.ch/activities-opticalreadout>







Source : Roberto Guida



## Mastering les détecteurs gazeux

- du gaz
- un système d'amplification
- une collecte des électrons
- ou des photons dans les cas les plus modernes