

- Public health, Safety, and Regulations:
  - To achieve the most representative possible evaluation of gaseous releases from nuclear facilities (compared to annual autorisation releases),
  - To allow early detection to define protective measures,
    - » → homogeneity of gazes is needed and has to be known.
- He-4 detection in stacks by mass-spectrometry allows qualification for:
  - Sampling points and air monitoring,
  - Homogeneity of sampling area.
- Limits:
  - The He-4 is present naturally in the air (background levels).
  - Have the same behavior as small particles.
  - Need a « good mixing length ».
  - Uncertainties?

