

# PURIFICATION TECHNIQUE AND RADIOPURITY ANALYSES OF $\text{YCl}_3$ FOR CLYC SCINTILLATION CRYSTAL GROWTH

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- $\text{YCl}_3$  purification
  - Liquid-liquid extraction with organic solvent
- Radiopurity evaluation (Th, U) by HR-ICP-MS after solid phase extraction with TRU resin to enhance sensitivity
- Secular equilibrium evaluation by  $\gamma$ -ray spectrometry (HPGe detectors)

