

Preliminary study on the influence of Fe and Ni concentrations on the quantification of ^{55}Fe and ^{63}Ni

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- **Topic:** quantification of ^{63}Ni and ^{55}Fe in steels from decommissioning of fusion and fission research reactors through Liquid Scintillation Counting (LSC)
- **Case study:** samples with very low activity level, close to the unconditional release level by Authority
- **Objective:** to minimize the acquisition time needed to reach the Minimum Detectable activity Concentration required by Authority
- **Proposal:** tested experimental procedure to optimize sample concentration in the LSC vial
 - concentration (key parameter) influences detection efficiency, through quenching effect, and MDC along with acquisition time

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