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Region-of-Interest Methods Used in Net Count Calculations

There are multiple approaches to radioxenon data analysis using the net count calculation (NCC) method. This presentation focuses on the 10- and 7-regions-of-interest (ROI) approaches. Analysis of radioxenon data from the Xenon International, a new system developed by Pacific Northwest National Laboratory in partnership with Teledyne Brown Engineering, uses the 7-ROI approach, whereas the Swedish Automatic Unit for Noble gas Acquisition uses the 10-ROI approach. The similarities and differences between the two approaches will be presented, along with considerations for improvements and standardization for software sustainability.

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