

Evaluation of Chemical Pretreatment Methods using Accelerator Mass Spectrometry for Environmental Sample Analysis

Thursday, November 14, 2024 1:00 PM (1h 30m)

In Accelerator Mass Spectrometry (AMS) laboratories, chemical pretreatment is essential for reducing sample contamination and enhancing data reliability. Specifically, in radiocarbon dating with AMS, chemical pretreatment is used to remove carbonates and humic acids, allowing for more precise measurement of sample data. This chemical pretreatment has been used for traditional sample measurement and is currently applied to environmental samples. This study evaluated the chemical pretreatment with comparing three distinct approaches using AMS, and its measurement data are discussed in this paper.

Paper submission Plan

Best Presentation

Contribution track

ICABU WG4. Applications of Particle Beams

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Session Classification: ICABU Poster Session

Track Classification: ICABU: ICABU WG4. Applications of Particle Beams