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Experimenting solutions of Lithium reduction for radiocarbon measurement with 1 MV AMS at charge state 2+

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A 1MV AMS was installed at IHEG-CAGS in 2023. We usually measure ^{14}C at charge state 2+ because beam transmission yield reaches maximum value at a terminal voltage of 1000 kV. However, when 2+ ions are used for the 1MV ^{14}C analysis, interference by the $^7\text{Li}_2$ molecular ions is severe in some cases. Therefore, it was necessary to investigate the source of Li interference.

Herein, we give some experimenting solutions of Lithium reduction for radiocarbon measurement with 1 MV AMS at charge state 2+.

Student Submission

No

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