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Inspiration and reflection of ^{14}C analysis with TJUAMS

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AMS, as an ultra-sensitive method, is increasingly used in the determination of ^{14}C for studies on wide variety of fields. As a multi-nuclide ^{14}C extended AMS system, TJUAMS has been operating at Tianjin University for seven years. The sample throughput of measured ^{14}C has exceeded 6000. During the long-term ^{14}C -AMS measurements and data processing, some new discoveries and ideas, such as the effect of strong or weak ion beam current on the experimental results, the suitability of using the machine $\delta^{13}\text{C}$ value correction, and the problems faced in the measurement by small samples of graphite solid, are worth exploring and discussing. In this contribution, the relevant experimental tests, ideas and proposals will be presented in detail.

Student Submission

No

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