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## **A new HVE 1 MV multi-element AMS system at IHEG-CAGS AMS lab in China**

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A 1 MV Accelerator Mass Spectrometer(AMS) dedicated to measuring  $^{14}\text{C}$  as well as capabilities to measure  $^{10}\text{Be}$ ,  $^{26}\text{Al}$ ,  $^{41}\text{Ca}$ ,  $^{129}\text{I}$ , was installed at IHEG-CAGS (Institute of Hydrogeology and Environmental Geology, Chinese Academy of Geological Sciences) in 2023. This multi-element AMS was developed by HVE and the results of an acceptance test demonstrated that its ability to achieve precision for  $^{14}\text{C}$ ,  $^{10}\text{Be}$ ,  $^{26}\text{Al}$  and  $^{129}\text{I}$  to 0.13, 1.25, 2.61 and 0.39% levels, with background values of  $5.4 \times 10^{-16}$ ,  $1.4 \times 10^{-15}$ ,  $8.5 \times 10^{-16}$  and  $6.4 \times 10^{-14}$  respectively.

### **Student Submission**

No

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