

Abstracts Submitted to the 13th International Conference on Accelerator Mass Spectrometry

Aix-en-Provence, France

August 24-29 2014

Determining ²¹⁰Pb by accelerator mass spectrometry

Sookdeo Adam¹, Cornett Jack¹, Zhao Xiaolei², Charles Christopher², Kieser William²

[1] Dept. of Earth Sciences and A. E. Lalonde Lab, Univ. of Ottawa (Canada); [2] Dept. of Physics and A. E. Lalonde Lab, Univ. of Ottawa (Canada)

Improved target preparation methods for actinides by AMS

Dai Xiongxin¹, Kramer-Tremblay S.¹, Priest N.D.¹, Christl M.², Synal Hans-Arno³, Lachner J.³,
Zhao Xiaolei.⁴, Kieser William.⁴, Litherland Albert⁵

[1] AECL Chalk River Laboratories (Canada); [2] Laboratory of Ion Beam Physics, ETH Zurich (Switzerland); [3] Laboratory of Ion Beam Physics (Switzerland); [4] Dept. of Physics and A. E. Lalonde Lab, Univ. of Ottawa (Canada); [5] Department of Physics, University of Toronto (Canada)

Negative ion-gas reaction studies using ion guides and AMS

Eliades John¹, Zhao Xiaolei², Litherland Albert³, Kieser William²

[1] Korea Institute of Science and Technology (South Korea); [2] Physics and A. E. Lalonde Lab, Univ. of Ottawa (Canada); [3] Department of Physics, University of Toronto (Canada)

I/Te separation in an RFQ gas cell and the potential use of ¹²⁵I as a spike for AMS analysis of ¹²⁹I at low levels

Charles Christopher¹, Zhao Xiaolei¹, Cornett Jack², Herod Matt², Kieser William¹, Litherland Albert³

[1] Dept. of Physics and A. E. Lalonde Lab, Univ. of Ottawa (Canada); [2] Dept. of Earth Sciences and A. E. Lalonde Lab, Univ. of Ottawa (Canada); [3] Department of Physics, University of Toronto (Canada)

Studies of the intrinsic ion transmission of RF ion guides for AMS: I

Zhao Xiaolei¹, Litherland Albert²

[1] Dept. of Physics and A. E. Lalonde Lab, Univ. of Ottawa (Canada); [2] Department of Physics, University of Toronto (Canada)

Isobar Separator for Anions: Current Status

Alary Jean-François¹, Javahery Gholamreza², Kieser William³, Zhao Xiaolei³, Litherland Albert⁴,
Cousins Lisa², Charles Christopher³

[1] Isobarex Corp (Canada); [2] IONICS Mass Spectrometry (Canada); [3] Dept. of Physics and A. E. Lalonde Lab, Univ. of Ottawa (Canada); [4] Department of Physics, University of Toronto (Canada)

A preliminary study of direct ¹⁰Be²⁺ counting in AMS using the super-halogen anion BeF₃⁻

Fu Yun-Chong^{1,2}, Wu Zhen-Kun^{1,2}, Zhou Wei-Jian^{1,2,3}, Zhao Xiao-Lei^{1,2,4}, Zhang Li^{1,2}, Zhao Guo-Qing^{1,2}, Liu Qi², Lu Xue-Feng^{1,2}, Zhao Wen-Nian^{2,3}, Huang Chun-Hai^{2,3}

[1] State Key Laboratory of Loess and Quaternary Geology, Institute of Earth Environment, Chinese Academy of Sciences (China); [2] Shaanxi Key Laboratory of Accelerator Mass Spectrometry Technology and Application, Xi'an AMS Center (China); [3] Xi'an Jiaotong University (China); [4] Dept. of Physics and A. E. Lalonde Lab, Univ. of Ottawa (Canada)

Actinide Measurements by AMS and AS using Fluoride Matrices

Cornett Jack¹, Kazi Zakir¹, Zhao Xiaolei², Chartrand Michelle¹, Charles Christopher², Kieser William², Litherland Albert³

[1] Dept. of Earth Sciences and A. E. Lalonde Lab, Univ. of Ottawa (Canada); [2] Dept. of Physics and A. E. Lalonde Lab, Univ. of Ottawa (Canada); [3] Department of Physics, University of Toronto (Canada)

Development of a Cs Isotope Measurement Technique for AMS

MacDonald Cole¹, Charles Christopher¹, Zhao Xiaolei¹, Kieser William¹, Cornett Jack²

[1] Dept. of Physics and A. E. Lalonde Lab, Univ. of Ottawa (Canada); [2] Dept. of Earth Sciences and A. E. Lalonde Lab, Univ. of Ottawa (Canada)

The André E. Lalonde AMS Laboratory – the new accelerator mass spectrometry facility at the University of Ottawa

Kieser William¹, Clark Ian², Cornett Jack², Litherland Albert³, Zhao Xiaolei¹, Klein Matthias⁴,
Mous Dirk⁴, Alary Jean-François⁵

[1] Dept. of Physics and A. E. Lalonde Lab, Univ. of Ottawa (Canada); [2] Dept. of Earth Sciences and A. E. Lalonde Lab, Univ. of Ottawa (Canada); [3] Department of Physics, University of Toronto (Canada); [4] High Voltage Engineering B.V., (Netherlands); [5] Isobarex Corp, (Canada)

Graphitization made easy: new streamlined and automated graphitization lines at the Lalonde AMS facility

Crann Carley¹, St-Jean Gilles¹, Kieser William², St-Jean Normand¹, Murseli Sarah¹, Clark Ian¹

[1] Dept. of Earth Sciences and A. E. Lalonde Lab, Univ. of Ottawa (Canada); [2] Dept. of Physics and A. E. Lalonde Lab, Univ. of Ottawa (Canada)