

THE STUDY OF A HOT FILAMENT MASS SPECTROMETER



by

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ABSTRACT

The construction and operation of a 180° mass spectrometer for the investigation of salts of alkali metals and alkali earth metals were described. The spectrometer was used to determine the atomic masses and abundance ratios of K^{39} , K^{41} ; Li^6 , Li^7 ; Ca^{40} , Ca^{44} and Na^{23} . The spectrometer could not separate the isotopes of barium due to the limitation of its resolving power.

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