

E 9 A MOLECULAR DESORPTION TIME-OF-FLIGHT MASS SPECTROMETER

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A time-of-flight Mass Spectrometer which makes use of the technique called "Heavy ion induced desorption of molecules" has been designed and constructed. Fission fragments from Californium -252 radioactive source are used to desorb molecular ions from thin solid samples. Time-of-flight measurements are made by ion counting using a fast electronics system. Construction details of this system, data acquisition method together with the first PDMS spectrum obtained for alkali halide (CsCl) are presented.