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Measurements of the Long-Lived Radionuclides in Environmental Samples by Accelerator Mass Spectrometry^{*1}

Mineo IMAMURA^{*2}, Hisao NAGAI^{*3}, Masatake HONDA^{*3}, Koichi KOBAYASHI^{*4}
kunio YOSHIDA^{*5}, Hideki YOSHIKAWA and Takayuki KOBAYASHI^{*6}

今村峯雄^{*2}, 永井尚生^{*3}, 本田雅健^{*3}, 小林紘一^{*4}
吉田邦夫^{*5}, 吉川英樹, 小林貴之^{*6}

We present a brief description of the status of our accelerator mass spectrometry system at the tandem accelerator facility of University of Tokyo and some examples of measurements in environmental samples which have been performed recently. The ^{10}Be activities have been measured in monthly collected fallout (rain) samples in Tokyo during 1975—1977 and 1984—1986, and compared with those of ^7Be and ^{137}Cs . A preliminary experiment on ^{14}C measurement in volcanic gas samples are also reported.

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*2 東京大学原子核研究所

*3 日本大学文理学部

*4 東京大学原子力研究総合センター

*5 東京大学理学部

*6 東京都立大学理学部