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Radiocarbon AMS at 45 keV

Radiocarbon analyses are performed for a lot of different research fields. Previous experiments have shown that Radiocarbon AMS might be possible at energies below 100 keV by using a helium gas stripper. Based on this data a prove of principle experiment was done with a temporarily built AMS instrument that was operating at a beam energy of 45 keV. The new design also introduced new sources of background particles. The analysis and experimental steps for reduction of the background will be presented in this talk.