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Joint Bratislava-Prague AMS/IBA studies using tandem accelerator

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A joint research programme has been established to study anthropogenic radionuclides in the environment using Accelerator Mass Spectrometry (AMS), namely ¹⁴C variations in the atmosphere and biosphere, and content of plutonium isotopes in the atmosphere and hydrosphere. Specifically, observations of ¹⁴C variations in the atmosphere and biosphere around the Czech and Slovak nuclear power plants will be presented and discussed in detail.

Ion Beam Analysis (IBA) techniques have been applied for radiation damage studies of construction materials of nuclear reactors, and of electronics components working in high radiation fields, e.g. at nuclear reactors and in space instruments.

*) Dedicated to the memory of Prof. Petr Beneš

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