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The Tandem accelerators center in Bucharest

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The recently improvements and developments at the classic 9 MV FN Tandem are described in the following work, together with the newly installed 3 and 1 MV Tandetron machines. The new slit stabilization system for the ion beam energy based on interconnection of three signal types coming from GVM (Generator Volt Meter), image slits and CPU is presented. An important development in our laboratory was the design and construction of an alpha particle ion source, which is also able to deliver other species of ion beams (H, S, O, N, F, C). The project involved the construction of a charge exchanger based on Na vapors. Beside this, we report the first scientific results at the newly installed last generation HVEE Tandetron accelerators. The 3 MV machine is dedicated to ion beam studies and materials modifications, while the smallest one, the 1 MV accelerator is dedicated to AMS (Accelerator Mass Spectrometry) and especially to radiocarbon dating.

Primary author: MOSU, Daniel Vasile ("Horia Hulubei" National Institute for Physics and Nuclear Engineering)

Co-authors: Mr GHIȚĂ, Dan Gabriel ("Horia Hulubei" National Institute for Physics and Nuclear Engineering); Mr MITU, Iani ("Horia Hulubei" National Institute for Physics and Nuclear Engineering); Mr CĂLINESCU, Ionuț Cătălin ("Horia Hulubei" National Institute for Physics and Nuclear Engineering); Mr SAVA, Tiberiu ("Horia Hulubei" National Institute for Physics and Nuclear Engineering); Mr DOBRESCU, Șerban ("Horia Hulubei" National Institute for Physics and Nuclear Engineering)

Presenter: MOSU, Daniel Vasile ("Horia Hulubei" National Institute for Physics and Nuclear Engineering)

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