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The new intermediate energy in flight facility ACCULINNA-2

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The new project of the in-flight fragment separator ACCULINNA-2 [1] at U-400M cyclotron in Flerov Laboratory of Nuclear Reaction, JINR is proposed as the third generation of the Dubna Radioactive Ions Beams (DRIBs-1) complex [2]. It is expected to be a more universal and powerful instrument in comparison with existing separator ACCULINNA [3]. The beam intensity should be increased by factor 10-15, the beam quality greatly improved and the range of the accessible secondary radioactive beams broadened up to Z^{20} . The new separator will provide RIBs in the broad range of energies 5-50 AMeV –the lowest energy range which is attainable for in-flight separators. Extensive research program which could be carried out at this facility and its operating principle are described. The new ACCULINNA-2 separator is planned to be constructed during the years 2010-2016.

Is this an invited talk? (please answer yes or no)

no

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no

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yes

Are you a student, postdoc or an attendee from an “emerging” country and would like to apply for financial support?

yes

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