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Abstract for an Invited Paper for the HAW09 Meeting of the American Physical Society

## A new approach for Next-TRIAC $^1$ HIROARI MIYATAKE, IPNS, KEK

TRIAC (Tokai Radioactive Ion Accelerator Complex) is a unique RIB facility in Japan based on the ISOL and post-acceleration scheme. It has been operated as a User Facility since the November of 2005. Fission fragment beams via the proton-induced uranium fissions of 10<sup>11</sup> fis/sec are available in the acceleration energy range 0 to 1.1 MeV/u. At this moment, before considering an immediate extension (or upgrade) of the present TRIAC in terms of facility, we have proposed a new research program, which is supposed to be one of important physics programs at the next generation of TRIAC-like facility (Next-TRIAC). That is an experimental approach to study unknown nuclei in the vicinity of waiting region for A=195 r-process abundance peak through the multi-nucleon transfer reactions of neutron-rich beams. In the talk, after the brief summary of TRIAC activities, I will introduce an outline of our short term experimental proposal and underlined physics motivation relevant to the future's Next-TRIAC. Also I will mention some important R&D subjects to be solved in the short term project.

<sup>1</sup>for TRIAC collaboration