

Preface

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This issue of Research Report of Laboratory of Nuclear Science reports research activities of the LNS performed in the 2001 academic/fiscal year (April 2001-March 2002). Major research activities are based on the electron accelerator complex consisting of the 300-MeV LINAC and the 1.2-GeV STB ring. The accelerators have altogether provided a beam time of about 2,300 hours for various experiments through the year.

The major operation of the 1.2-GeV STB ring was low-energy stretcher mode for the period from May to November, in which $(e,e'n)$ and $(e,e'\alpha)$ reactions were successfully carried out as well as low-energy tagged photon experiments. For the booster mode operation, the (γ, K^0) measurements have started in November by using the STB tagged photons and the magnetic spectrometer, Neural Kon Spectrometer (NKS). However, the measurements were forced to pause in January 2002, because of a construction of the new experimental hall for GeV γ -rays, in which experiments with the scintillation detector system, SCISSORS, are planned. The construction was scheduled by the end of July 2002. Thus, no experiments can be performed by using the STB ring during this period, and only low-energy electron beam from the LINAC, which is mainly used for radioactive isotope production, was available. It is eagerly desired to start the experiments in the GeV γ -ray experimental hall, since a simultaneous use of the GeV γ -rays, the one in the experimental hall 2 and the other in the new hall, is expected to be possible.

We hope that this Report will serve as a quick overview of the present LNS activities over a variety of nuclear science research fields.

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