

Preface

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This issue of Research Report of Laboratory of Nuclear Science reports research activities of the LNS performed in the 2000 academic/fiscal year (April 2000 - March 2001). Major research activities are based on the electron accelerator complex consisting of the 300-MeV LINAC and the 1.2-GeV STB ring installed in 1997. The accelerators have altogether provided a beam time of about 2400 hours for various experiments through the year.

For a particular importance of this year, we have observed much progress on 1.2 GeV electron beam operation of the STB ring, although the available beam time was not enough. The beam intensity of 1.2 GeV circulating electrons has reached to 20 mA after a major difficulty was removed, and there is still more room for improvement to get much intense beam. Furthermore, the STB Tagger, which provides tagged GeV photons, has been installed in the ring and has worked well for experiments with GeV photons; new data of (γ, η) reactions on nuclei have been obtained and are now being analyzed.

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

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