

Preface

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This issue of Research Report of Laboratory of Nuclear Science reports research activities of the LNS performed in the 2003 academic/fiscal year (April 2003 - March 2004). 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 2,800 hours for various experiments through the year.

In this year, the measurement of the $C(\gamma, K^0)$ reaction with the NKS spectrometer was finished, and that of the $D(\gamma, K^0)$ reaction has successively started by using GeV tagged photon at the experimental hall 2. The construction of another tagged photon beam line for a new experimental hall (GeV γ -ray experimental hall) was a little bit behind the schedule, and the experiment on (γ, η) reactions by using a new tagging system has finally started at the end of March. The measurements on $(e, e'p)$ and $(e, e'\alpha)$ reactions have also been performed at the experimental hall 2 by using a 200-MeV stretched beam extracted from the STB ring. Also performed were experiments on coherent radiation using a pulsed electron beam below 200 MeV as well as radioactive isotope production.

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

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