

## PREFACE

This report presents 651 results of non-proprietary experiments conducted using SPring-8 public and contract beamlines during the period September 2004 through December 2004 which is the fourteenth research term (2004B). SPring-8 opened for research in October 1997 and holds two research terms per year for users. Experiments of the Priority Research Proposals came into operation from the twelfth research term (2003B). The Priority Research Proposal intends to introduce a strategic approach to research at SPring-8 in order to produce more research results.

For the public use, they include 386 General Proposals, 2 Urgent Proposals, 6 Long-term Proposals [7 reports]. No Long-term Proposal was started in this research period. Fifty-four Nanonet Proposals and 21 Trial Use Proposals were carried out as the Priority Research Proposals. All results of Protein 500 Priority Research Proposals (Protein 500 Proposals) will be made public at the end of the Protein 3000 Project. Five Power User Priority Research Proposals (Power User Proposals) and 3 Strategy Priority Research Proposals (Strategy Proposals) were carried out in this research period. These proposals carried out using 25 public beamlines and 9 other beamlines.

Furthermore, 120 non-proprietary uses were carried out using 9 contract beamlines.

Fifty-three proposals were carried out in the beam time kept for SPring-8 staff in the 2 R&D beamlines and public beamlines.

SPring-8's public and contract beamlines are available for proprietary and non-proprietary researches, respectively. In the case of proprietary research, there is a charge for beam time but no obligation to make the results of experiments open to the public. In this research term, 23 and 26 proprietary uses were carried out in the public beamlines and contract ones, respectively.

After each research term, SPring-8 publishes the non-proprietary research results submitted by users in their experimental report forms. In some cases, users continued with their analysis after the 60-day reporting deadline; consequently the contents included here may not always reflect full pictures of experimental achievements.

SPring-8 hopes that the information in this report is useful. If you have any questions, comments or requests for further details, please contact the SPring-8 Users Office.