

15. Activities of Research Information Office (RIO)

1. Research Information Office (RIO)



The Research Information Office (RIO) was established aiming to consolidate research information of NIFS. The NIFS-Repository opens the research activities to the public through the Internet. The NIFS Article Information System (NAIS)

which has been developed by RIO accumulates research activity information related to the fusion science. The information disclosure of the latest study results is also an important function of RIO by publication of research reports such as an annual report, a NIFS report, etc.

2. NIFS-Repository



Nowadays Institutional Repository (IR) is recognized as one of the most important infrastructures for universities and institutes. For example, in a guide book of Japanese universities "Daigaku Ranking" published by Asahi Shimbun Publications Inc., IR is recognized as one of the evaluation indices of universities since 2009.

RIO is assigned as an operating organization for NIFS-Repository (<http://nifs-repository.nifs.ac.jp>). RIO organized a working group to implement this task. The system for NIFS-Repository was set up and started its operation at the end of Mar. 2009.

In general, a university-based IR is defined as; "A set of services that a university offers to the members of its community for the management and dissemination of digital materials created by the institution and its community members". In other words, for in the case of NIFS, the IR is required to meet the social accountability of the Institute that is carrying out a large-scale project of nuclear fusion research and development.

From FY2009 to FY2012, NIFS-Repository was partly supported by a grant from Cyber Science Infrastructure (CSI) Project for "Further expanding IRs and creating content" operated by National Institute of Informatics (NII).

The "NIFS-repository" has been operated in NIFS based on "DSpace" and it was required to introduce a new version of the system including its operating system. The renewal of the working system needs complex procedure and cost, so we made consideration to use of "Software as a Service (SaaS)" for the new system. Utilization of the SaaS makes staff free from operation and maintenance works. In 2012, the configuration and data transfer to new system was completed and tested. From April 2013, the new system starts its operation and serves data without any interruption.

In FY2013 our efforts were mainly concentrated onto enrichment of its contents in NIFS-Repository. Namely, the

retroactive input of the papers from Annual report and published papers was continued. As a result, by the end of FY2013 number of contents in NIFS-Repository increased to 9,350 items, including scientific articles published in various journals, NIFS-reports and Annual Report of NIFS, and 39,907 accesses in total (excluding that made by so called robots) were recorded during FY 2013.

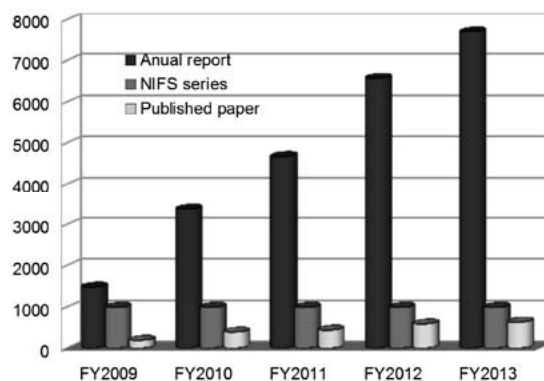


Fig. 1 Accumulated numbers of contents in NIFS-Repository.

3. Publication of NIFS reports and Collection of Reports



Publication of the annual report and series of NIFS Research Report is also important task of RIO. NIFS series are the preprints for presenting promptly the results of a collaboration research work of NIFS.

NIFS Research Report

Present the results of research work for nuclear fusion, plasma physics and theory & simulation and experiments in related fields.

NIFS-PROC

Present the proceedings of international conferences or symposia organized by NIFS and the reports of the meetings for the collaboration research work of NIFS.

NIFS-TECH

Present the results of technical research development related to nuclear fusion and plasma physics.

NIFS-DATA

Present the data series compiling the evaluated basic data for fusion science and related fields.

NIFS-MEMO

Technical data and reference for newly developed devices, databases, hardware and software of computer codes.

Table 1 Number of published NIFS reports

	FY 1989-2012	FY 2013	TOTAL
NIFS	1072	3	1075
NIFS-DATA	114	0	114
NIFS-TECH	14	0	14
NIFS-PROC	91	5	96
NIFS-MEMO	63	4	67
Annual Report	23	1	24

The office also collects laboratory reports and other literatures concerning nuclear fusion and related fields from foreign institutions. The total number was approximately 36818. In order to save the space for storage and safekeeping, we keep them in the form of microfiche.

Now they, especially reports of early days of fusion research, have been constantly utilized by researchers not only in NIFS but also outside NIFS.

(Mito, T.)