Outline of the Act Partially Amending the Act on Facilitating the Shared Use of Specified Large Advanced Research Facilities

Purpose

This amendment adds NanoTerasu, a next-generation synchrotron radiation facility operated by the National Institutes for Quantum Science and Technology (hereinafter referred to as "QST"), as a specified large advanced research facility, and establishes measures such as having NanoTerasu's operator, QST, carry out operations to make NanoTerasu's shared-use areas available for shared use by researchers and others, in order to facilitate the shared use of NanoTerasu and help strengthen the infrastructure for science and technology research.

Overview

(1) NanoTerasu added as a specified large advanced research facility

The amendment adds NanoTerasu, which is operated by QST, as a specified large advanced research facility, and facilitates its shared use by researchers and others.

(Article 2, paragraph (3))

(2) Additional QST operations

The amendment adds constructing and maintaining shared facilities for synchrotron radiation (NanoTerasu's public beamline area) and providing it for shared use by researchers and others to QST's operations.

(Article 5, paragraph (1))

(3) Implementation of operations to facilitate the use of NanoTerasu by registered institutions for facilitating the use of facilities

The amendment makes it possible to have registered institutions for facilitating the use of facilities carry out the part of the operations that it has been established QST is to perform which are related to user selection and support.

(Article 8, paragraph (1))

Effective Date

April 1, 2024

(Article 1 of the Supplementary Provisions)

Framework for the shared use of specified large advanced research facilities based on the Act on Facilitating the Shared Use of Specified Large Advanced Research Facilities

National Government (Minister of Education, Culture, Sports, Science and Technology)
Formulates a basic policy for facilitating shared use

Registers organizations (for each facility)

Approves implementation plans Issues improvement orders... and other operations

Approves implementation plans

Facilities operators

RIKEN

Japan Atomic Energy Agency

National Institutes for Quantum Science and Technology (added)

Facility construction and maintenance... and other operations

Added



Registered institutions for facilitating the use of facilities

In order to ensure that shared use is fair and efficient, an organization with expertise in facilities utilization and research which is separate from the operator of the facility in question wil be responsible for facilitating its use.

User selection services

(Selection of research projects based on the opinions of outside experts)

Usage support services

(Sharing of information, consultation, and other user support)



3 GeV high-brilliance synchrotron radiation facility NanoTerasu

 Specified synchrotron radiation facility SPring-8/SACLA



Specified Large Advanced Research Facilities

2. Specified neutron beam facility
J-PARC



3. Specified high-speed computer facility Supercomputer Fugaku

Use the facilities across a broad range of fields

Users (universities, IAAs, private-sector entities)

Fair selection of users/usage support

research projects

Submission of users'

特定先端大型研究施設の共用の促進に関する法律の 一部を改正する法律の概要

趣旨

国立研究開発法人量子科学技術研究開発機構(以下「量研」という。)により設置される次世代放射光施設NanoTerasu(ナノテラス)の共用を促進し、科学技術に関する研究等の基盤の強化等を図るため、NanoTerasuを特定先端大型研究施設に追加するとともに、NanoTerasuの設置者である量研にNanoTerasuの共用部分を研究者等の共用に供する業務等を行わせることとする等の措置を講ずる。

概要

(1)NanoTerasuを特定先端大型研究施設に追加

特定先端大型研究施設として、量研により設置されるNanoTerasuを追加し、研究者等による共用を促進する。 (第2条第3項関係)

(2)量研の業務の追加

量研の業務に、放射光共用施設(NanoTerasuの共用ビームライン部分)の建設・維持管理を行い、これを研究者等の共用に供すること等を追加する。

(第5条第1項関係)

(3)登録施設利用促進機関によるNanoTerasuの利用促進業務の実施

量研が行うものとされた業務のうち、利用者の選定及び支援に係る業務を、登録施設利用促進機関に行わせることができることとする。(第8条第1項関係)

施行期日

令和6年4月1日

(附則第1条関係)

◆共用促進法に基づく特定先端大型研究施設の共用の枠組み

国(文部科学大臣) 共用の促進に関する基本的な方針の策定

実施計画の認可

登録 (施設ごと) 実施計画等の認可 改善命令 等

施設設置者

- ❖ 理化学研究所
- ❖ 日本原子力研究開発機構
- ❖ 量子科学技術研究開発機構【追加】
- 施設の建設・維持管理 等

連携

登録施設利用促進機関

公平かつ効率的な共用を行うため、施設利用研究に専門的な知見を有する、設置主体とは別の機関が利用促進業務を実施

- 利用者選定業務 (外部専門家の意見を踏まえた実施課題の選定)
- 利用支援業務 (情報の提供、相談等の利用支援)



3 GeV高輝度放射光施設 NanoTerasu

追加

1.特定放射光施設 SPring-8 / SACLA



「特定先端大型研究施設」

2.特定中性子線施設 J-PARC



3.特定高速電子計算機施設 スーパーコンピュータ 富岳

利用課題の応募

広範な分野における活用

利用者 (大学・独法等、民間)

| 公正な利用者選定・利用支

援