

Osaka City University Advanced Mathematical Institute  
Application Guidelines for Joint Usage/Research projects on 2021

In April 2019, Osaka City University Advanced Mathematical Institute has been certified as a MEXT “Center for Joint Usage/Research” .

**Project name : “Joint Usage/Research Center on Mathematics and Theoretical Physics”**  
**Research field : Mathematics (algebra, geometry, analysis), Theoretical physics**  
**(mathematical physics, astrophysics)**

As a continuation of the call for proposals of research projects for fiscal year 2020, and as a part of the Joint Usage/Research project, we are pleased to announce the call for proposals of research projects for fiscal year 2021. The overview and guideline of this call are as follows.

Please note that this call is based on the assumption of certification of MEXT grant in April 2021.

### 1. Purpose and Overview

Since the 21st Century COE Program, Osaka City University Advanced Mathematical Institute (OCAMI) has been engaged in a series of international joint researches and research exchanges with domestic and foreign universities, and has built up international and domestic networks. This time, as a new stage, we will further develop our activities based on our past achievements, and OCAMI, as a center for joint usage/research, will expand new international research/education by collaboration/co-creation of mathematics and theoretical physics. By circulating talented researchers by joint usage/research through domestic/international networks, in the area of mathematics and theoretical physics, OCAMI is aimed at further strengthening the foundation and development of academic research, creation of new research, and cultivation of young internationally-researchers, and establishes an internationally-leading research/education center.

### 2. Call for proposals of joint usage/research projects

The present call for proposals consists of three types, (1), (2), (3) in the following list, and is aimed at joint usage/research corresponding to the above research areas.

In principle joint usage/research projects should be for fiscal year 2021 (April 2021–March 2022).

(1)	Joint Usage/Research (general)	Joint Usage/Research (A)	Planned number of participants : greater than or equal to 50. Desired aid amount
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			: within 2,000,000 (yen)
		Joint Usage/Research (B)	Planned number of participants : within 50. Desired aid amount : within 1,000,000 (yen)
		Joint Usage/Research (C)	Planned number of participants : within 10. Desired aid amount : within 100,000 (yen)
(2)	International Joint Work 「Mathematical Science of Symmetry, Topology and Moduli」		
(3)	Large Scale International Conference		

※ Desired aid amount is for **travel expense (domestic travel expense, expense for invitation of foreign researcher) • gratuity for talk or research cooperation • personnel expense • expense for venue.**

※ For (2), foreign travel expense is allowed.

(1) Joint Usage/Research (general)

● Joint Usage/Research (A) :

Planned number of participants: greater than or equal to 50

Desired aid amount (domestic travel fee • invitation fee for foreign researcher)

● : within 2,000,000 (yen) Joint Usage/Research (B) :

Planned number of participants: within 50

Desired aid amount (domestic travel fee • invitation fee for foreign researcher)

: within 1,000,000 (yen)

● Joint Usage/Research (C) :

Planned number of participants : within 10

Desired aid amount (domestic travel fee • invitation fee for foreign researcher)

: within 100,000 (yen)

Terms:

In principle, joint usage/research should be conducted at Osaka City University (Sugimoto campus or Umeda Satellite) . In the case of other domestic places, approval by the center committee is required.

(2) International Joint Work 「Mathematical Science of Symmetry, Topology and Moduli」

Terms :

Joint research should be conducted at foreign universities and research institutes that have concluded a research cooperation agreement with OCAMI, overseas institute which cooperated to the Brain Circulation Program promoted by OCAMI (please see “list of international partner institute” ), or OCAMI. Research results are expected through joint research, invitation of researchers at the above foreign university/institute, and mid-term to long-term dispatch of young researchers.

※ This time (2) is not recruited in consideration of COVID-19 pandemic.

(3) Large Scale International Conference

Terms:

Project should promote collaboration/co-creation of mathematics and theoretical physics. In principal joint usage/research should be conducted at Osaka City University (Sugimoto campus or Umeda Satellite) . In the case of other domestic places, approval by center committee is required.

3. Application

**【Documents for submission】**

(1) Proposal for Joint usage/research (Excel)

(2) References (free format : Program in plan, related papers)

● By e-mail

※ Please write 「application for 2021 OCAMI research proposal」 in the subject space

● By mail

※ Please write 「application for 2021 OCAMI research proposal」 in red color

**【Address】**

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Osaka City University Advanced Mathematical Institute,  
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4. Application period

15 February, 2021, 12:00 (JST)

5. Selection

After selection process by project selection committee, certified by deliberation due to center committee.

Selection criteria :

- ① Feasible and expected with certainty.
- ② International level research can be expected.
- ③ Supporting development of young researchers.
- ④ Promoting collaboration/co-creation of mathematics and theoretical physics.

6. Adaption and rejection :

The result will be informed to the proposer by later of February 2021. If the project is adapted, aid amount will be unofficially announced.

Official aid amount will be informed to the proposer after certification of the MEXT grant, planned in April 2021.

## 7. Procedure after adoption

- (1) After the adoption, secretary of the center will inform you the process on the submission of implementation planning worksheet, etc.
- (2) After finishing joint usage/research, please submit the report on the joint usage/research to the secretary of the center.
- (3) Report the information on research results (preprint, paper, book, etc.) to secretary of the center.

## 8. Others

- (1) Before submitting proposal, the proposer should take contact with the OCU researchers in the proposal. If not, the application will be rejected in principle.
- (2) The information on the adopted research project, such as project name, abstract, research plan, and research results will be opened at the homepage of the center.
- (3) It is recommended to submit preprint, which is a research result of the project, to the OCAMI Preprint Series. OCAMI Preprint Series is registered to the repository of the Osaka City University. We can give a DOI to the preprint if the author wants. Note that the paper assigned with a DOI may not be published elsewhere.

If the content, such as preprint, submitted to the OCAMI Preprint Series is published elsewhere, please report the publication information to the secretary of the center as soon as possible.

- (4) If the proposer wants to make/publish a report consisting the abstracts of talks (OCAMI Reports), please check “13. Reports” in the proposal. The OCAMI report will be registered to the repository of the Osaka City University, and we can give a DOI to the OCAMI report if the proposer wants.
- (5) By approval of the center committee, the proposer can hold a jointly hosted conference with another research institute/group.

## 9. Contact

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