

National Center for Theoretical Sciences NCTS Research in Pairs Program

The National Center for Theoretical Sciences (hereafter referred to as NCTS) aims to invite groups of first-rate mathematicians to work on research projects of substantial impact at the NCTS, and thus establishes the *NCTS Research in Pairs Program*.

The NCTS provides space, funding, and opportunities for small groups of mathematicians to work together. The long-term expectation of this program is to achieve outcomes such as validating exciting results, discovering new phenomena, developing new techniques, identifying new problems or directions, and collaborating or interacting with local researchers at the NCTS.

A Research Pair may consist of two to four members, who must not be all affiliated with the same institution. Members of the research pair can spend two to eight weeks in NCTS to conduct joint research and will be supported as visiting scholars of NCTS (round trip airfare is not included). Domestic research pair members will receive financial support primarily following the NCTS Domestic Visiting Scholars guidelines.

Calls for submitting proposal are announced every April, July, and November, and applications in research fields related to one of the NCTS Topical programs will be granted priority. Final decisions are made by the NCTS Executive Committee based on the scientific merits of the applications and availability of funds. In exceptional cases, applications may be approved for up to three years. Priority will be given to applicants in the following areas:

- Number Theory and Representation Theory
- Algebraic Geometry
- Differential Geometry and Geometric Analysis
- Differential Equations
- Scientific Computing
- Interdisciplinary Studies
- Analysis and Probability

Required Documents

To apply please send the following documents to apply_acad@ncts.tw. (In the subject line, please specify “NCTS Research in Pairs”)

- A formal cover letter
- A detail proposal of the project (not exceeding 10 pages)
 - a. Overview, background, and known partial results of the proposed project
 - b. Planned research activities of the participants before, during, and after their stay at the Center
 - c. Expected outcome and results of the proposed project
 - d. Past research collaborations among the participants
- Curriculum Vitae of all the participants

Applications should be submitted well in advance of the proposed visit (preferably for at least 3 months). Detailed report should be submitted within 1 month after the conclusion of the project.