

# Welcome to Kobe!



## RIMS-iTHEMS International Workshop on Resurgence Theory

chaired by Tetsuo Hatsuda (iTHEMS/Nishina Center), Tatsuhiro Misumi (Akita U. / Keio U. / iTHEMS)

from Wednesday, 6 September 2017 at **09:00** to Friday, 8 September 2017 at **18:00** (Asia/Tokyo)  
at **RIKEN Kobe ( Integrated Innovation Building )**

6-7-1 Minatojima-minamimachi, Chuo-ku, Kobe, Hyogo 650-0047

**Description** Dates: September 6-8, 2017

**Place:** RIKEN Kobe Campus, Integrated Innovation Building (IIB)

**Travel to Kobe:** all about Kobe

### Overview:

Resurgence theory and other related methods have recently attracted a great deal of attention in mathematics and theoretical physics. The purpose of this workshop is to bring both mathematicians and physicists together to accelerate progress in non-perturbative quantum analyses such as the resurgence theory. The topics to be discussed at the workshop include -Resurgence theory -Exact WKB analysis -Wall-crossing (Stokes) phenomena -Lefschetz thimble -Perturbative calculation for non-pert. physics - Functional renormalization group -Other non-perturbative methods. Although the workshop mainly consists of invited talks, we will have relatively long discussion time each day and welcome lots of people. We hope that this workshop will advance the research on non-perturbative quantum analysis and produce significant works.

T. Hatsuda (iTHEMS Director)



Research Institute for Mathematical Sciences  
Kyoto University



iTHEMS

RIKEN interdisciplinary  
Theoretical & Mathematical  
Sciences



Wako/Kobe/Kyoto/Berkeley/Sendai

## About RIMS

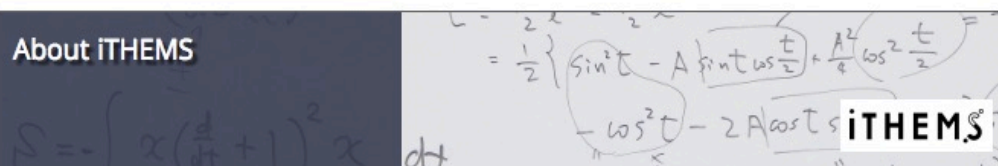
Research Institute for Mathematical Sciences (RIMS) was founded at Kyoto University in April 1963 with the aim of promoting research in the mathematical sciences throughout Japan.

The current staff at RIMS consists of researchers (professors, associate professors, lecturers, and research associates ---about forty in all) and office personnel (over forty), as well as postdoctoral fellows and graduate students (in the masters and doctoral programs --usually ranging from forty to fifty).

Domestically, RIMS functions as a focal point for joint research among researchers in the mathematical sciences from all over Japan. In this capacity, RIMS hosts numerous short- and long-term domestic visitors, and frequently serves as a site for research conferences.

In addition, RIMS is an active center of international joint research, and, as such, plays host to a steady stream of long-term foreign visitors. For the convenience of our foreign visitors, we have established International Research Support Office through which we provide various services for our foreign guests.

## About iTHEMS



Interdisciplinary Theoretical and Mathematical Sciences (iTHEMS) at RIKEN is an international research program to promote close collaborations among researchers from different disciplines in theoretical, mathematical and computational sciences. The ultimate goal of iTHEMS is to unravel the mystery of the Universe, matter and life, as well as to solve key problems in modern society through interdisciplinary approaches.

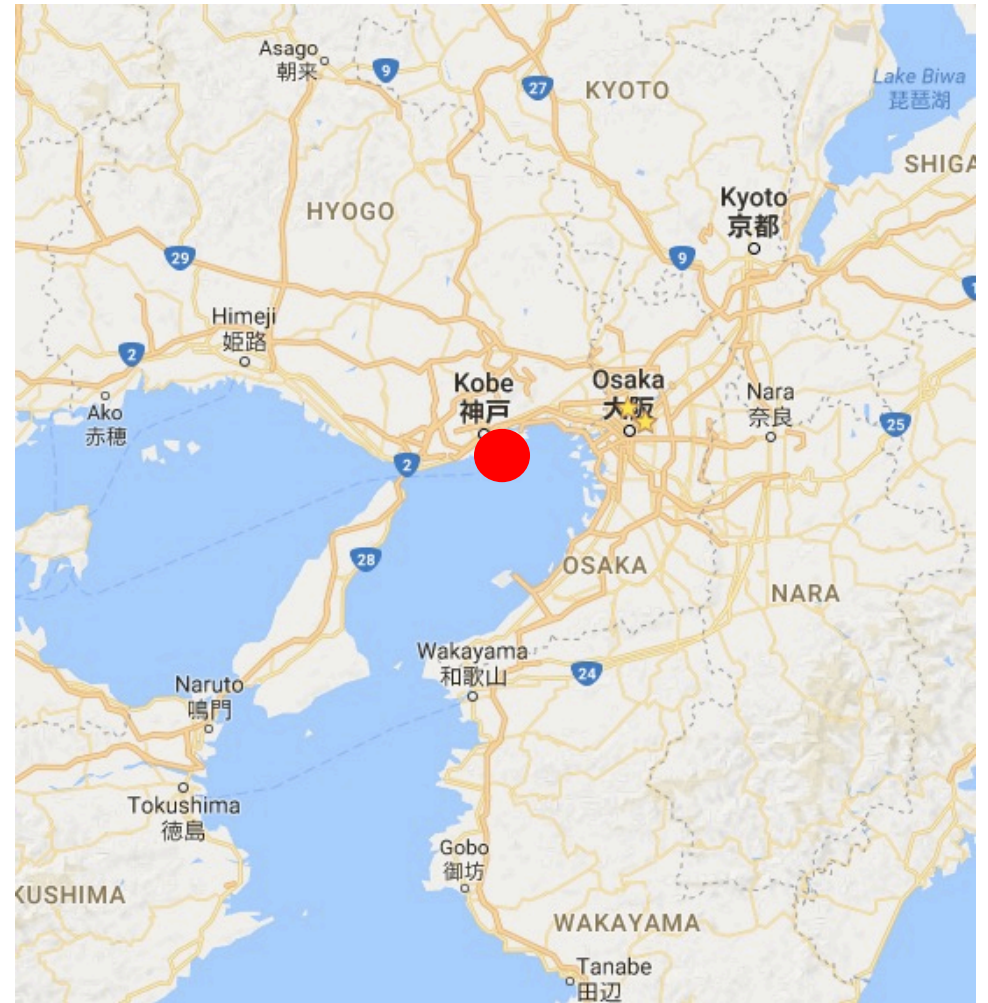
Through the international brain circulation network, interdisciplinary schools and workshops and the daily interactions among theoretical, mathematical and computational scientists, iTHEMS aims at developing an ideal environment for young researchers to make major breakthroughs. We anticipate iTHEMS creates new movements in basic science.



# Where are we now? iTMEMS Kobe Satellite in RIKEN Kobe Campus

## Japan

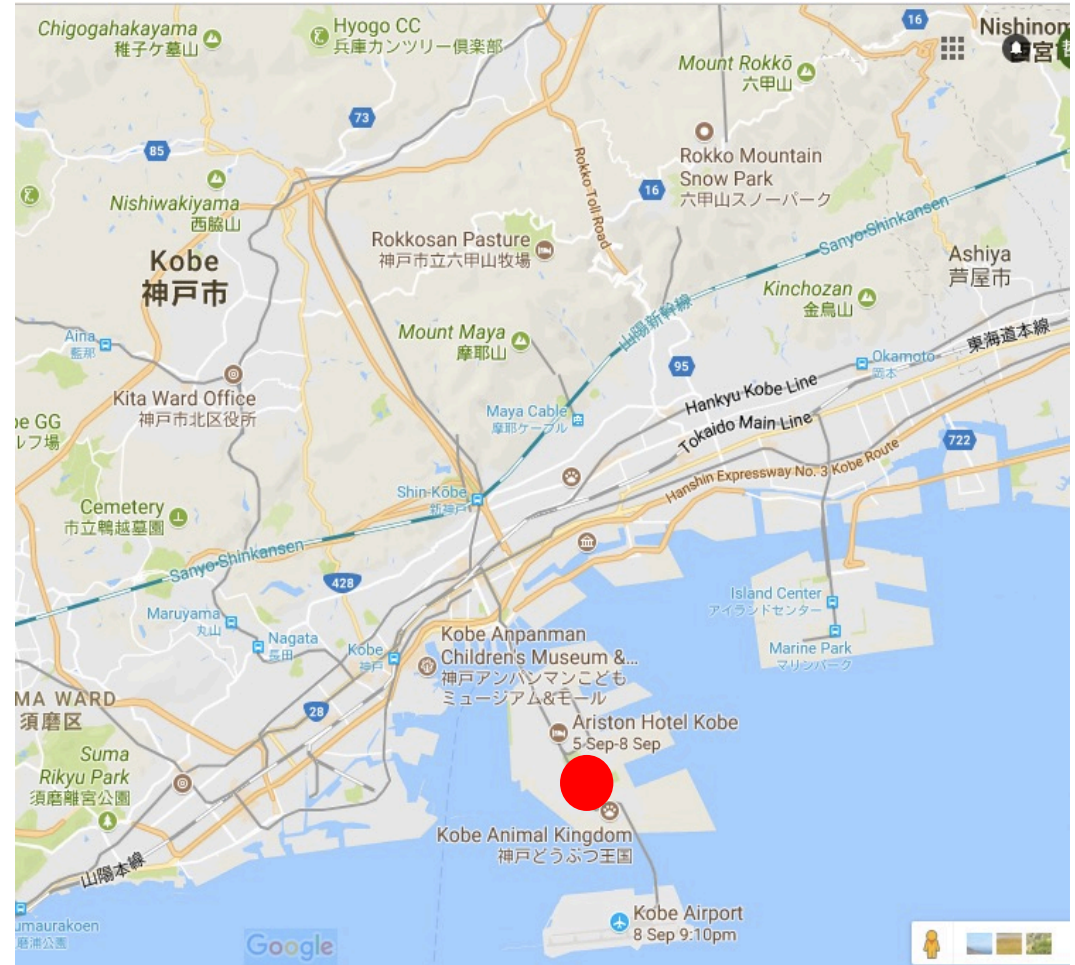
- A** Sendai
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- D** Tokyo
- E** Yokohama
- F** Nagoya
- G** Osaka
- H** Kobe
- I** Harima



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# ENJOY !

