Join us for the 23rd Hyogo Science E-café:
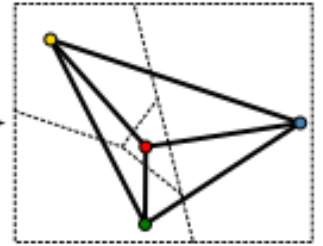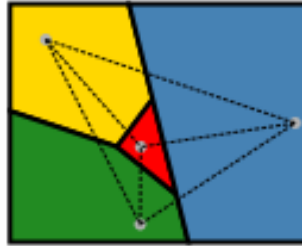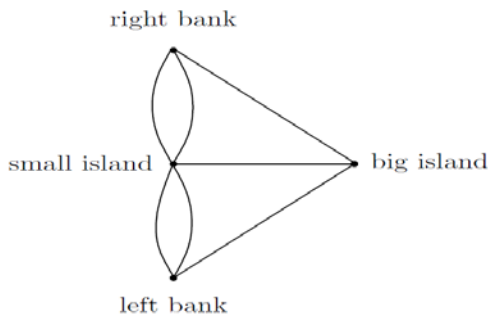## Universality and Applications of Mathematics: a sojourn into graph theory
数学の普遍性と応用: グラフ理論探訪

Guest: Sakaé Fuchino and Wayne Rossman, Kobe University
Hosted by: Hyogo Science Coalition and Kobe University Science Shop

Crossing Bridges
In Königsberg (present-day Kaliningrad), whether you can walk in the city by crossing each of the 7 bridges exactly once was a famous riddle. For his negative solution of this riddle, the Swiss mathematician Leonhard Euler introduced the notion of graphs. We will talk about the mathematics around this notion and some of its interesting theories and applications *(Sakaé Fuchino)*.

History of coloring maps with four colors
The 4-color mapping problem became popular only after a supposed proof was found to have an error, at the end of the 19th century. At the time, it was thought that the error would be easy to fix, but, in the process of finding out that this is not so, the problem grew in fame. In this talk we will dip a bit into the graph theory underlying this story *(Wayne Rossman)*.

New location: G-Navi Commons, Hyogo International House
600円
Friday April 27th 18:30-20:30

Join us for an English science lecture and discussion over café drinks and sandwiches. *Please let us know if you have any dietary requirements.*

To register, e-mail your name to The Kobe University Science Shop at:
HSE-CAFE@RADIX.H.KOBE-U.AC.JP
Register by Tuesday 24th April.
Space is limited to the first 30 people.

1-2-8 Wakihamacho, Chuo-ku, Kobe, Hyogo 651-0072
Tel: 078-242-2561, Fax: 078-242-2562
· 3 min. walk from Hanshin Iwaya Stationn
· 5 min. walk from JR Nada Station
· 10 min. walk from Hankyu Oji-koen Station