

Discussion Group on Mathematics Houses and Mathematics Museums throughout the World

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Albrecht Beutelspacher has always taken interest in communicating mathematics to a broad public audience .and

Ali Rejali, a co-founder of the First Mathematics House in Iran, with the help of the Team Members: **Christian Mercat**, Lyon House for Mathematics and Informatics, Lyon, France.

Abolfazl Rafiepour, Shahid Bahonar University of Kerman and Kerman Mathematics House, Kerman , Iran. (rafiepour@uk.ac.ir) and

Yahya Tabesh, Sharif University of Technology, Tehran, Iran. (tabesh@sharif.ir) are organizing this DG.

Aims and Rationale:

After a fruitful Discussion Group at ICME-13 in Germany and the establishment of an International Network of Mathematics Houses [INMH] in 2016 [1], we are trying to work on the official structure of the network and discuss forms of cooperation between mathematics houses and mathematics museums throughout the world. Their success in enhancing mathematical awareness among their communities and their impact on mathematics education, as well as their challenges, can be discussed.

Aims of the DG:

The Discussion Group aims to introduce Mathematics Houses and Mathematics Museums and similar institutions throughout the world to a public audience and discuss their effect on mathematics education. They can foster connections and discuss the important impact of promoting teamwork among their members, as well as seeking new ways to cooperate and exchange the beautiful experiences of their establishments, as well as their particular activities. They can present studies on their achievements and discuss their challenges. Finally, they can build an official partnership network and announce it to the greater public.

Questions:

1. What are the benefits of such institutes for popularizing mathematics and improving mathematics education?
2. What are the challenges they face?
3. How can mathematics institutions share activities and cooperate with each other?
4. How can their members benefit from other institutes in other parts of the world?
5. What are the effects of these institutes in mathematics education of the region around these institutes?
6. What is the network [INMH] and what could be its structure?

Planned structure (21:30 – 23:00, July 14):

Planned timeline	Planned activity	Working format /Responsible person
9:30-9:35	Opening Statements	Lecture /Ali Rejali
9:35- 9:45	What are the Museums of Mathematics	Lecture/Albrecht Beutelspacher
9:45- 9:55	Opportunities for Innovative Multidisciplinary Learning at Mathematics Houses	Lecture/Yahya Tabesh
9:55- 10:05	What are the other roles of Mathematics Houses and Mathematics Museums for the society	Lecture/Albrecht Beutelspacher
10:05 – 10:20	Challenges for Mathematics Houses	Lectures / Abolfazl Rafiepour and Christian Mercet
10:20 – 10:30	A report on the Belgium Mathematics House	Presentation / Their representative
10:30 - 10:40	What are the effects of Mathematics Houses on Education and the Society	Lecture/ Christian Mercet
10:40-10:45	The Network and its Structure	Presentation/Ali Rejali
10:45- 11:00	Discussion by the audience and the members of the Panel	Discussion/ Chaired by Albrecht Beutelspacher