

# Mini course on Hopf algebroids

## Report

During the week from March 6 to March 10, the AARMS-AAC-mini course 'Hopf algebras and their generalizations from a categorical point of view' took place at the St. John's campus of Memorial University. Professor Gabriella Böhm of the Hungarian Academy of Sciences gave five lectures on Hopf algebras and their generalizations, such as weak Hopf algebras, within monoidal categories. Professor Böhm is one of the leading experts in the area and has published widely on the subject. The now intensively studied concept of a weak Hopf algebra was introduced by her.

Professor Böhm lectured on monoidal categories, monoidal structures on functors between such categories, monads and bimonads in these categories, Hopf algebras and Hopf algebroids, weak Hopf algebras, and duoidal categories. She had written lecture notes in advance that were handed out before every lecture and are now available from the web page of the mini course. Nineteen people with a variety of roles in the university participated in the mini course, ranging from four faculty members, two postdocs, seven graduate students, to even six undergraduate students. Most participants came from Memorial University, but there were two external guests from the University of New Brunswick and the Université Libre de Bruxelles, who experienced an intense week with many mathematical discussions in a relaxed atmosphere.

## Participants

Gabriella Böhm (Lecturer, Hungarian Academy of Sciences)

Yuri Bahturin (Organiser, Memorial)

Yorck Sommerhäuser (Organiser, Memorial)

Hamid Usefi (Faculty member, Memorial)

Yiqiang Zhou (Faculty member, Memorial)

Nathan Grieve (Postdoc, University of New Brunswick)

Christina Vasilakopoulou (Postdoc, Université Libre de Bruxelles)

Caio De Naday Hornhardt (Graduate student, Memorial)

Helen Samara Dos Santos (Graduate student, Memorial)

Abdallah Shihadeh (Graduate student, Memorial)

Hau Nguyen (Graduate student, Memorial)

Svea Mierach (Graduate student, Memorial)

Stanislav Opanasenko (Graduate student, Memorial)

Ibrahim Al-Jabea (Graduate student, Memorial)

Bryan Kettle (Undergraduate student, Memorial)

Alexander Sanger (Undergraduate student, Memorial)

Renee Boileau (Undergraduate student, Memorial)

Noah MacAuley (Undergraduate student, Memorial)

Anton Afanassiev (Undergraduate student, Memorial)  
Joshua Fleming (Undergraduate student, Memorial)

Number of Participants

Regional: 18

National/International: 1

Expenses

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Hotel Gabriella Böhm: 928 Canadian dollars

Hotel Nathan Grieve: 1237.60 Canadian dollars

Hotel Christina Vasilakopoulou: 773.50 Canadian dollars

Flight Gabriella Böhm: 1050.92 Canadian dollars

Flight Nathan Grieve: 889.24 Canadian dollars

Flight Christina Vasilakopoulou: 632.15 Canadian dollars

Poster printing: 9.77 Canadian dollars

Total: 5521.18 Canadian dollars