## 2nd Conference on Combinatorial Structures in Geometry

### Schedule

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<th>Time</th>
<th>Monday, September 2</th>
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| 09:30 – 10:00 | Lorenzo Venturello  
Balanced non-partitionable Cohen-Macaulay complex | Michael Joachim  
Twisted spin cobordism and D-brane homology | Aicke Hinrichs  
How good is random information? | Alexandru Constantinescu  
Bounding the Castelnuovo-Mumford regularity |
| 10:00 – 10:30 | Ulrich von der Ohe  
Learning algebraic decompositions using Prony structures | | | |
| Coffee Break | Coffee Break | Coffee Break | Coffee Break | |
| 11:00 – 11:30 | Manh Toan Nguyen  
Twisted equivariant K-theory | Hadrian Heine  
An infinity-categorical version of real algebraic K-theory I | Dominik Nagel  
Prony’s method and the condition number of Vandermonde matrices | Alexandros Grosdos Koutsoumpelias  
The 0-1-2 of local Dirac mixture moments |
| 11:30 – 12:00 | Markus Wageringel  
Reconstruction of generalized exponential sums | Paula Verdugo  
An infinity-categorical version of real algebraic K-theory II | Robert Kunsch  
Optimal confidence for Monte Carlo integration of smooth function | Konrad Voelkel  
A p-adic variant of oriented blow-ups and Kato-Nakayama spaces |
| Lunch Break | Lunch Break | Lunch Break | Lunch Break | |
| 14:00 – 14:30 | Tobias Müller  
Percollation and random graphs in the hyperbolic plane | Grace Itunuoluwa Akinwande  
Mixed Regimes in Random Simplicial Complexes | Arun Kumar  
Motivic BO spectrum and Hermitian K-theory | |
| 14:30 – 15:00 | | Jan-Marten Brunink  
Chromatic subdivisions of simplicial complexes | Jonathan Steinbuch  
Sheaf Stability and Computations | |
| Coffee Break | Coffee Break | Coffee Break | | |
| 15:30 – 16:00 | Binh Hong Ngoc  
Expected mean width of randomized integer convex hull | Alberto Fernandez Boix  
Free pairs of a simplicial complex and an application | | |
| 16:00 – 16:30 | Ilia Pirashvili  
The fundamental groupoid of binoid varieties | Hongyi Chu  
Segal presheaves and polynomial monads | Soccer  
& Barbecue | |
| 19:00 | Dinner at Rampendahl | | | |