

# WORKSHOP DAY 1

## CIRCUIT DIAMETERS AND AUGMENTATION

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May 15, 2023 9:00 a.m.-5:40 p.m. (MDT)

Room 4125

Student Commons Building, University of Colorado Denver

Zoom id: 968 9902 7439

<https://ucdenver.zoom.us/j/96899027439>

Backup: 907 505 4260

<https://ucdenver.zoom.us/j/9075054260>

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Time	Item
9:00 a.m.	<i>Meet &amp; Greet, Welcome Round</i>
9:30 a.m.	<b>Sean Kafer</b> An Introduction to the Circuits of Polyhedra: Basics, Diameters, and Optimization
10:30 a.m.	<i>Break</i>
11:00 a.m.	<b>Jesús De Loera</b> From Circuits to Graver Bases: A Survey
12:00 p.m.	<i>Networking Lunch (room 4020)</i>
1:30 p.m.	<b>Bento Natura</b> Circuit imbalance measures and linear programming
2:05 p.m.	<b>Cedric Koh</b> On Circuit Diameter Bounds via Circuit Imbalances
2:40 p.m.	<i>Break</i>
3:00 p.m.	<b>Tamon Stephen</b> Klee-Walkup and Circuits
3:35 p.m.	<b>Alex Black</b> On the Circuit Diameter Conjecture for Hirsch Counter-examples
4:10 p.m.	<i>Break</i>
4:30 p.m.	<b>Sean Kafer</b> It's not hard to solve LPs quickly with circuits
5:05 p.m.	<b>Matthias Brugger</b> Circuits in Extended Formulations

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# WORKSHOP DAY 2

## CIRCUIT DIAMETERS AND AUGMENTATION

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May 16, 2023 9:00 a.m.-5:40 p.m. (MDT)

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Room 4125

Student Commons Building, University of Colorado Denver

Zoom id: 961 5595 0398

<https://ucdenver.zoom.us/j/96155950398>

Backup: 907 505 4260

<https://ucdenver.zoom.us/j/9075054260>

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Time	Item
9:00 a.m.	<b>Laura Sanità</b> Circuits, diameters, and matching games
10:00 a.m.	<i>Break</i>
10:30 a.m.	<b>Jon Lee</b> Recent algorithmic advances for maximum-entropy sampling
11:30 p.m.	<i>Group Photos</i>
11:45 p.m.	<i>Lunch Break</i>
1:30 p.m.	<b>Daphne Skipper</b> Blending Models in Gas Network Optimization
2:05 p.m.	<b>Stephan Patterson</b> Programming Models for Computing Barycenters
2:40 p.m.	<i>Break</i>
3:00 p.m.	<b>Amy Wiebe</b> The Slack Realization Space of a Polytope
3:35 p.m.	<b>Michael Wigal</b> Hardness and Approximations of Submodular Minimum Linear Ordering Problems
4:10 p.m.	<i>Break</i>
4:30 p.m.	<b>Weston Grewe</b> On the Combinatorial Diameters of Parallel and Series Connections
5:05 p.m.	<b>Youngho Yoo</b> Path odd-covers of graphs

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