



# Generalizations of de Bruijn Cycles and Gray Codes December 4 - 9, 2004



## MEALS

Breakfast (Continental): 7:00 – 9:00 am, 2<sup>nd</sup> floor lounge, Corbett Hall, Sunday – Thursday

\*Lunch (Buffet): 11:30 am – 1:30 pm, Donald Cameron Hall, Sunday – Thursday

\*Dinner (Buffet): 5:30 – 7:30 pm, Donald Cameron Hall, Saturday – Wednesday

Coffee Breaks: As per daily schedule, 2<sup>nd</sup> floor lounge, Corbett Hall

\*Please remember to scan your meal card at the host/hostess station in the dining room for each lunch and dinner.

## MEETING ROOMS

All lectures will be held in **Max Bell 158** (Max Bell Building accessible by bridge on 2<sup>nd</sup> floor of Corbett Hall). Hours: 6 am – 12 midnight. Please note that the meeting space designated for BIRS is the lower level of Max Bell, Rooms 155-159. Please respect that all other space has been contracted to other Banff Centre guests, including any Food and Beverage in those areas.

## SCHEDULE

	<i>Saturday</i>	<i>Sunday</i>	<i>Monday</i>	<i>Tuesday</i>	<i>Wednesday</i>	<i>Thursday</i>	
7.00-9.00	x	Continental Breakfast, 2 <sup>nd</sup> floor lounge, Corbett Hall					
9.00-10.15	x	F. Rusky A. Williams	H. Fredricksen P. Diaconis R. Graham	G. Hurlbert	C. Savage	Informal Sessions	
10:15-10:45		Coffee Break, 2 <sup>nd</sup> floor lounge, Corbett Hall					
10.45-11.30	x	Open Problems	Open Problems	B. McKay	K. O'Bryant	Informal Sessions	
11.30-13.30	x	Buffet Lunch, Donald Cameron Hall					
13.30-15.00	x	Informal Sessions Metrics for Gray Code	Informal Sessions Applications	J. Cooper Informal Sessions Representations as Words for U Cycles	Free Afternoon	x	
15.00-15.30	x	Coffee Break, 2 <sup>nd</sup> floor lounge, Corbett Hall					x
15.30-17.30	x	R. Johnson M. Dewar	E. Moreno A. Godbole	K. Casteels B. Jackson	Free Afternoon	x	
17.30-19.30		Buffet Dinner, Donald Cameron Hall					x

## **Titles**

F. Ruskey:	Gray Codes, Polyominoes and Distributive Lattices
A. Williams:	A Gray Code that Knuth Missed
R. Johnson:	Long Cycles in the Middle Two Layers of the Cube
M. Dewar:	Gray Codes of Block Designs
H. Fredricksen:	The Classical de Bruijn Sequence Problem
P. Diaconis/R. Graham:	Some Magic
E. Moreno:	de Bruijn Sequences for General Languages
A. Godbole:	Birthday problem with Dependence
G. Hurlbert:	U Cycles and Recent Results for $(n-k)$ Subsets of $n$ -Set
K. Casteels:	U Cycles of $n-1$ Partitions of $n$ -Set
B. Jackson:	A Recursive Construction for U Cycles of 2-Subspaces
C. Savage:	Enumeration of Sequences Constrained by the Ratio of Consecutive Parts
K. O'Bryant:	The Density of the Outputs of Linear-Shift Registers
J. Cooper:	Cycles for Other Shapes of Sliding Window