



# Commutative Algebra: Homological and Birational Theory September 11 – 16, 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 159 (Max Bell Building accessible by bridge on 2<sup>nd</sup> floor of Corbett Hall). Hours: 6 am – 12 midnight. LCD projector, overhead projectors and blackboards are available for presentations. 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

### Saturday, September 11

16:00 Check-in begins (Front Desk – Professional Development Centre - open 24 hours)

17:30-19:30 Buffet Dinner, Donald Cameron Hall

20:00 Informal gathering in 2<sup>nd</sup> floor lounge, Corbett Hall

Beverages and small assortment of snacks available on a cash honour-system basis.

### Sunday, September 12

7 - 8:45 Breakfast, 2<sup>nd</sup> floor lounge, Corbett Hall

8:45 - 9 Introduction and Welcome to BIRS by BIRS Station Manager, Max Bell 159

9:15 - 10:15 H. Flenner: "Amplemess over local rings and degeneracy loci"

COFFEE BREAK

11 – 12 S. Sather-Wagstaff: "Semidualizing modules and the Divisor Class Group"

LUNCH

3-4 Srikanth Iyengar: "Finiteness in derived Categories of local rings"

COFFEE BREAK

4:30 – 5:30 Moty Katzman: "Uniform behaviour of the Frobenius closure"

### Monday, September 13

9-10 Luchezar L. Avramov: "Gaps in Hochschild cohomology of a commutative algebra imply smoothness"

COFFEE BREAK

11-12 Liana Segal: "Independence of the total reflexivity conditions for modules"

12-12:15 GROUP PHOTO – meet on the front steps of Corbett Hall

LUNCH

3-3:30 Keiichi Watanabe: "Log resolutions of toric ideals in dimension 3"

COFFEE BREAK

4-5 Paul Monsky: "Progress in calculating the Hilbert-Kunz series and Hilbert-Kunz multiplicities of hypersurfaces"

5:15-6:15 Lawrence Ein: "Contact loci and divisorial valuations"

## **Tuesday, September 14**

- 9-10 Mel Hochster: "Tight closure operations and big Cohen-Macaulay algebras"  
COFFEE BREAK
- 10:30-11 Anuragh Singh: "A connectedness result in positive characteristic"
- 11:15-12:15 Graham Leuschke: "Maximal Cohen--Macaulay modules over the generic determinant"  
LUNCH
- 1:30 Tour of the Banff Centre – meet in the 2<sup>nd</sup> floor lounge
- AFTERNOON FREE

## **Wednesday, September 15**

- 9-10 Dale Cutkowsky: "Toroidalization of Projective Morphisms"  
COFFEE BREAK
- 11-12 Sarah Faridi: "Studying monomial ideals using polarization"  
LUNCH
- 3-3:30 Shiro Goto: "Stable local rings"  
COFFEE BREAK
- 4-5 Vasudevan Srinivas: "Lefschetz Theorems for the Divisor Class Group"
- 5:15-6:15 Marc Chardin: "Computing the image of a rational map using approximation complexes (following Jouanolou)"

## **Thursday, September 16**

NO SCHEDULED TALKS – informal discussions encouraged.  
Breakfast and lunch still included.  
Checkout by 12 noon.