

# CBMS Conference on Algebraic Combinatorics

## Schedule of Talks

(all talks to be held in Room 314, Harrelson Hall, NCSU)

### June 4, 2001, Monday

- 8:30-9:00 Registration, Coffee and Refreshments, Rm 245
- 9:00-9:15 Welcome by Dr. Ernie Burniston, Head
- 9:15-10:15 Alain Lascoux  
Multivariate Polynomials 1
- 10:15-10:45 Coffee Break, Rm 245
- 10:45-11:45 Alain Lascoux  
Multivariate Polynomials 2
- 11:45-2:00 Lunch
- 2:00-3:00 Masato Okado  
Fermionic formula as a truncated branching function
- 3:10-4:10 Jennifer Morse  
A filtration for the symmetric function space
- 4:10-4:30 Coffee Break
- 4:30-5:30 Discussion

### June 5, 2001, Tuesday

- 8:30-9:00 Coffee and Refreshments, Rm 245
- 9:00-10:00 Alain Lascoux  
Multivariate Polynomials 3
- 10:00-10:30 Coffee Break
- 10:30-11:30 Alain Lascoux  
Multivariate Polynomials 4
- 11:30-2:00 Lunch
- 2:00-3:00 Mark Schimozono  
Virtual crystals and fermionic formulas I
- 3:10-4:10 Ann Schilling  
Virtual crystals and fermionic formulas II
- 4:10-4:30 Coffee Break
- 4:30-5:30 Mike Zabrocki  
q-Analogs Arising from Hopf Algebra Structures

### June 6, 2001, Wednesday

8:30-9:00 Coffee and Refreshments  
9:00-10:00 Alain Lascoux  
Mutivariate Polynomials 5  
10:00-10:30 Break  
10:30-11:30 Alain Lacoux  
Mutivariate Polynomials 6  
11:30-2:00 Lunch  
2:00-3:00 Susumu Ariki  
Representation types of Hecke algebras of type B  
3:10-4:10 Monica Vazirani  
Hecke algebras and crystal graphs  
4:10-4:30 Coffee Break  
4:30-5:30 Maxim Vybornov  
Affine Lie algebras, quiver varieties, and algebras of BPS  
states

### June 7, 2001, Thursday

8:30-9:00 Coffee and Refreshments  
9:00-10:00 Alain Lascoux  
Mutivariate Polynomials 7  
10:00-10:30 Break  
10:30-11:30 Alain Lacoux  
Mutivariate Polynomials 8  
11:30-2:00 Lunch  
2:00-3:00 Piotr Pragacz  
Computing with divided differences for classical groups  
3:10-4:10 Mike Kleber  
Schur functions, Plucker relations, and type B/C/D  
analogues  
4:10-4:30 Coffee Break  
4:30-5:30 Discussion  
6:30– Banquet at Red Palace Chinese Restaurant  
3945 New Bern Ave (Beacon Plaza Shopping Ctr)  
Direction: I-440 (Beltline), exit Rt 64 E (New Bern)  
Left at 2nd light to Beacon Plaza. Tel: 231-3788

**June 8, 2001, Friday**

8:30-9:00 Coffee and Refreshments  
9:00-10:00 Alain Lascoux  
Multivariate Polynomials 9  
10:00-10:30 Coffee Break  
10:30-11:30 Alain Lascoux  
Multivariate Polynomials 10

### **Transportation Information**

We have arranged airport pick-up service on June 3 and drop off on June 9. We will have a shuttle running periodically depending on need.

If you have not done so, please give your flight information with arrival time at Raleigh-Durham Airport. Your arrival will be either terminal A or C depending on the airlines. In either case, please come to the luggage claim area for pick-up.

If you take a taxi or are driving please note that conference housing is in 1) the Avent Ferry Complex (previously called Mission Valley Inn) at the intersection of Western Blvd and Avent Ferry Road; 2) Velvet Cloak Inn.

If you stay in Velvet Cloak Inn, they provide a free airport pick-up service. You will need to call 919-828-0333 in advance to save waiting time. Their van leaves for the airport at every hour from 7 am to 10 pm.

If we miss you, you can take a taxi (about \$25) or use the R & G Airport shuttle (\$ 18 one way, 1-800-840-2RDU) (1-800-840-2738 or 1-919-847-2226).

### **Driving Direction**

The conference housing is in the Avent Ferry Complex (previously called Mission Valley Inn) at the intersection of Western Blvd and Avent Ferry Road. Some participants stay in Velvet Cloak Inn or Brownstone Hotel.

The conference will be held in Harrelson Hall in Room 314. Harrelson Hall is about 15-20 min walking distance from the dorm. For people staying in the hotel, you can walk along Hillsborough westward for 10-15 min. to Harrelson Hall. In order to park on campus you will need a parking permit (cost is about \$1.50 per day). You can purchase the parking permit at Avent Ferry Complex when you check-in.

In the following we include the direction to the dorm. For direction to Velvet Cloak Inn or Brownstone Hotel please see the end.

#### **Coming From Interstate 85:**

1. Take I-85 (north or south, depending on where you started) until you get to the I-40 junction. From there, take I-40 East.

2. Continue until you get to Exit 289 - The Wade Avenue Exit. Taking this exit will lead you into the heart of Raleigh. After exiting off I-40, continue up Wade Avenue until you get to Faircloth street (it will be the second stoplight).

3. There will be a shopping center to your left, and signs indicating Meredith College to the right. Turn right at this stoplight onto Faircloth Street. Continue on Faircloth Street, which will become Gorman Street. Take a left on Western Boulevard. At the 2nd light turn right to Avent-Ferry road, the dorm is on the right side at the corner.

#### **Coming from I-40 Heading East:**

1. Take I-40 until you get to Exit 289 - Wade Avenue Exit. Then follow (2) and (3) above.

#### **Coming From Interstate 95:**

1. Take I-95 (north or south, depending on where you started from) until you get to the I-40 junction. Take the I-40 West exit. From there follow the I-40

directions below...

**Coming from I-40 Heading West:**

1. Take I-40 into Raleigh (you'll know you're in Raleigh when you see the sign "Raleigh Next 9 Interchanges").

2. You will then enter the beltline. Be sure to take I-40 West-Durham, be sure you do not take I-440 North and East Raleigh. In short, do not exit off I-40.

3. At Exit 295 - Gorman Street get off I-40. After exiting, take a right onto Gorman Street. Afterwards, at the first stoplight, you'll be at the intersection of Gorman Street and Avent Ferry Road.

4. Take a right onto Avent Ferry Road. At the intersection (Western Boulevard and Avent Ferry Road), you will see the dorm (Avent-Ferry Complex) at the left corner.

**Coming from Raleigh-Durham International Airport:**

Leave the airport and get on Aviation Parkway (towards I-40). You can either then take Airport Boulevard to I-40 or follow Aviation Parkway to I-40. At the I-40 junction, take the I-40 East exit. This exit will get you on I-40 headed in the right direction.

1. Take I-40 until you get to Exit 289 - Wade Avenue Exit. Then follow (2) and (3) from the section of "**Coming From Interstate 85:**".

**Direction to Velvet Cloak Inn and Brownstone Hotel**

From the Beltline (I-440) exit at Hillsborough St. (this is the next exit to Wade Av. Exit if you are coming from north, or the next exit to Western Blvd from the south dir) towards NCSU or Meredith College direction or Downtown direction, proceed along Hillsborough St. Velvet Cloak Inn and Brownstone are next each other. Velvet Cloak Inn is at 1505 Hillsborough St, Raleigh, NC 27605 (Tel: 919-828-0333).