

# Doctoral School 2005 - Klagenfurt

## 1 Program

All lectures will be held in lecture hall B. Work on computer will be done in the computer room z 514b.

- Monday 8:30 - 9: Opening Session
- Monday 9 - 12: Bruce Reznick: Sums of squares of polynomials: past, present and future
- Monday 16 - 19: Pablo Parrilo: Sum of squares representation of Polynomials
- Tuesday 9 - 12: Alexander Schrijver: Exploiting symmetry in semidefinite programs
- Tuesday 16 - 19: Alexander Schrijver, followed by Pablo Parrilo with work on computer
- Wednesday: 9 - 13: Jean Lasserre: Global Optimization over Polynomials + work on computer
- Thursday: 9 - 12: Monique Laurent: Moment Matrices and Optimization over Polynomials
- Thursday: 16 - 19: Franz Rendl: Algorithms to solve Semidefinite Programs + work on computer
- Friday 9 - 12: Jesus de Loera: Integer Polynomial Optimization in Fixed Dimension

## 2 Social Program

- Sunday 18 - 20: Informal get-together at the mathematics seminar room i-201. Small snacks and some drinks will be provided. (Take the main entrance at the university and follow the signs.)
- Wednesday 2pm. Bus transfer for the hike. Meeting place at the bus stop in front of the main entrance to the university. Return by bus planned for about 9pm. Dinner will be provided at Klagenfurter Hütte, in the mountains.
- Friday: 13 - 14: Farewell lunch at the university restaurant IQ.

## 3 Further Information

For those staying at the youth hostel:

- Address: Neckheimgasse 6, phone number 0043 463 230020.
- Bus-stop for youth hostel: Neckheimgasse or Jugendgästehaus
- Check-in: between 17 and 22
- They provide sheets, but you have to bring your own towels.