

ABDUS SALAM SCHOOL OF
MATHEMATICAL SCIENCES &
NATIONAL CENTER FOR
MATHEMATICS
GC UNIVERSITY, LAHORE

Friday 2:30PM
January 18, 2019

GRÖBNER BASES AND INTEGER PROGRAMMING

Gerhard Pfister (University of Kaiserslautern)

A short introduction of the theory of Gröbner basis will be given. To a problem in integer programming a certain ideal in a polynomial ring is associated. It will be explained how to obtain the solution of the integer programming problem as a normal form of a certain polynomial with respect to a Gröbner basis.