THE UNIVERSITY   OF HONG KONG

Department of Mathematics

Numerical Mathematics and Applied Analysis Group Seminar (NMAA)

Lattice Basis Reduction

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on Wednesday, April 28, 2010 at 3:00pm
in Room 206, Run Run Shaw Building, HKU

Abstract

This talk has two parts. In the first part, after introducing the concept of a reduced basis for a lattice, we compare several definitions of a reduced lattice basis and propose a new definition of optimally reduced basis. In the second part, we discuss some existing lattice basis reduction algorithms and present a new algorithm for computing an approximation of an optimally reduced basis.

All are welcome