

Department of Mathematics
City University of Hong Kong

Colloquium

Organised by Prof. F. Cucker and Prof. M. Ismail

On a Problem posed by Steve Smale

by

Prof. Peter Buergisser
University of Paderborn

Abstract : At the request of the International Mathematical Union, in 1999, Steve Smale proposed a list of 18 problems for the mathematicians of the 21st century. The 17th of these problems asks for the existence of a deterministic algorithm computing an approximate solution of a system of n complex polynomials in n unknowns in time polynomial, on the average, in the size N of the input system. The talk presents fundamental advances in this problem including the smoothed analysis of a randomized algorithm and a deterministic algorithm working in near-polynomial (i.e., $N^{O(\log \log N)}$) average time.

Date : 15 March 2011 (Tuesday)
Time : 4:30pm – 5:30pm
Venue : Room B6605 (College Conference Room)
Blue Zone, Level 6
Academic Building
City University of Hong Kong

(Tea, coffee and cookies will be provided at the College Conference Room in B6605 after the colloquium from 5:30 to 6:00pm. Please come and join us.)

**** All interested are welcome ****

For enquiry : 3442-8646



香港城市大學
City University
of Hong Kong