

Department of Mathematics
City University of Hong Kong

Colloquium

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

Duality Mappings in Sobolev Spaces with Variable Exponents

by

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Abstract : Duality mappings in reflexive Banach spaces are operators from these spaces into their duals having good surjectivity properties. The properties of duality mappings are heavily influenced by the geometry of the spaces.

The influence of the geometry of Sobolev spaces with variable exponents $W_0^{1,p(x)}$ (like smoothness and uniform convexity) on the properties of duality mappings defined on such spaces is studied and some applications are given.

Date : 1 December 2010 (Wednesday)
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 before the colloquium from 4:00 to 4:30pm. Please come and join us.)

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

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