

NCTS Mini-course on Analysis at NSYSU

Order isomorphisms on sequence and function spaces

National Sun Yat-sen University

台灣·高雄·中山大學

Kaohsiung, Taiwan.

14:10-17:00pm, Thursdays, April 7 - May 26, 2016

Lecturer: Prof. Denny Leung 梁浩瀚教授 (Singapore National University)

The mini-course consists of 3 parts, and 7 three-hour long lectures in total starting from 2:10-5:00pm, the Thursday of April 7, 2016.

Part I: Order isomorphisms on sequence spaces.

Lecture 1: General theory of order isomorphisms on sequence spaces. Symmetric sequence spaces. (April 7)

Lecture 2: Some classical sequence spaces -- Orlicz sequence spaces, Orlicz-Lorentz sequence spaces, Marcinkiewicz sequence spaces. (April 14)

Part II: Order isomorphisms on function spaces

Lecture 3: General theory of order isomorphisms on function spaces. The case of continuous functions. (April 21)

Lecture 4: Function spaces defined on metric spaces. Lipschitz and little Lipschitz spaces. (April 28)

Lecture 5: Comparing function spaces by order isomorphism. (May 12)

Part III: Order isomorphisms on Banach lattices

Lecture 6: Order isomorphisms on Banach lattices. $C(K)$ and AM-spaces. (May 19)

Lecture 7: Banach lattices invariant under order isomorphisms. The special case of c_0 . (May 26).

Sponsors: National Center of Theoretical Sciences (Math, Taipei), and Department of Applied Mathematics, National Sun Yat-sen University.

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