Short Course

TITLE The Extender Algebra and its Variants

SPEAKER Ralf Schindler
University of Münster, Germany

TIME
Saturday, February 23, 2019, 14:00 - 16:00
Sunday, February 24, 2019, 14:00 - 16:00
Monday, February 25, 2019, 14:00 - 16:00
Wednesday, February 27, 2019, 10:00 - 12:00

VENUE Lecture Hall 1, Niavaran Bldg.

SUMMARY
This lecture course discusses criteria for when V is a generic extension of a given inner model. Bukowski and Balcar identified beautiful and handy criteria in the 1970's which got applied recently in set theoretical geology. Later, Woodin isolated his extender algebra which makes use of a large cardinal, a Woodin cardinal. It turns out that Bukowski's and Woodin's approaches may be presented in a uniform fashion. We will presuppose only basic knowledge of forcing, present Bukowski's and Woodin's results in a general framework, and discuss applications in set theoretic geology and descriptive set theory.