TITLE

The Extender Algebra and its Variants

SPEAKER

Ralf Schindler
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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. Bukowský and Balcar identified beautiful and handy criteria in the 1970'ies 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 Bukowský's and Woodin's approaches may be presented in a uniform fashion. We will presuppose only basic knowledge of forcing, present Bukowský's and Woodin's results in a general framework, and discuss applications in set theoretic geology and descriptive set theory.