KURT GÖDEL RESEARCH CENTER FOR MATHEMATICAL LOGIC

UNIVERSITÄT WIEN

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O.UNIV.-PROF. DR. SY-DAVID FRIEDMAN

INVITATION

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(KGRC)

$\mathrm{HOD}^{M_N(X,G)}$ IS A CORE MODEL

Abstract:

Let x be a real of sufficiently high Turing degree, let κ_x be the least inaccessible cardinal in $L[x]$ and let G be $Col(\omega, <\kappa_x)$-generic over $L[x]$. Then Woodin has shown that $\mathrm{HOD}^{L[x,G]}$ is a core model, together with a fragment of its own iteration strategy.

Our plan is to extend this result to mice which have finitely many Woodin cardinals. We will introduce a direct limit system of mice due to Grigor Sargsyan and sketch a scenario to show the following result. Let $n \geq 1$ and let x again be a real of sufficiently high Turing degree. Let κ_x be the least inaccessible strong cutpoint cardinal of $M_n(x)$ such that κ_x is a limit of strong cutpoint cardinals in $M_n(x)$ and let g be $Col(\omega, <\kappa_x)$-generic over $M_n(x)$. Then $\mathrm{HOD}^{M_n(x,g)}$ is again a core model, together with a fragment of its own iteration strategy.

This is joint work with Grigor Sargsyan.

THURSDAY, DECEMBER 1, 2016
Tea at 3:30pm in the KGRC meeting room (room 104)
Talk at 4:00pm in the KGRC lecture room (room 101)
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http://www.logic.univie.ac.at/Research_seminar.html