Centre National de Recherches de Logique asbl (C.N.R.L./N.C.N.L.),

Le mercredi 13 avril 2016 à 15H30, Thomas FORSTER (University of Cambridge) fera une conférence concernant la consistance de NF :

Thomas FORSTER, *The Consistency of Quine's set theory "New Foundations".*

Cet exposé aura lieu à

l'**ULB, Département de Mathématiques, 9e étage, local NO.906**.

Toute personne intéressée est invitée.

Abstract

Quine presented a new system of Axiomatic set theory - nowadays known as NF - in 1937. However he did not have a consistency proof. Since then a number of people have worked on reducing the consistency problem for NF to a problem that can be tackled by current methods. This process has now been completed, with Holmes' recent reduction of the problem - in several steps - to the challenge of finding a particular Fraenkel-Mostowski model of ZF, a problem in principle tractable by FM methods. This multi-stage reduction will be the subject of the talk. The final step, the construction of a suitable Fraenkel-Mostowski model, has - we believe - been successfully executed by Holmes, but the construction is vastly more complicated and your author is not yet satisfied that he understands how the construction works, though he can provide an outline. There are people other than Holmes who believe the proof to be correct, and when they are sufficiently numerous we can expect the proof to be refereed and published.

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