PSSL 83

GLASGOW

6 & 7 MAY 2006

Welcome

to the 83rd Peripatetic Seminar on Sheaves and Logic. It is supported by the Nuffield Foundation and the Department of Mathematics.

Talks are in room 417 (level 4). 'Preseminars' are very informal tutorials on the absolute basics of a subject, for those who need it. They take place in the corner of the coffee room towards the end of each break. The idea is that if, say, there are to be some talks on sheaf theory after the break, then a preseminar on sheaf theory will enable absolute beginners in the subject to get something out of those talks.

Saturday

9.00 – 9.05	Welcome
9.05 – 9.35	Jon Woolf, *Derived categories 1*
9.40 – 10.05	Jiří Velebil, *Definable operations in monads*
10.10 – 10.35	Miles Gould, *Coherence for categorified algebraic theories*
Break	including preseminar at 10.55: Rudger Kieboom, homological algebra
11.10 – 11.35	Tim Van der Linden, *On the second cohomology group in semi-abelian categories*
11.40 – 12.05	Yemon Choi, *Homological algebra for Banach modules?*
12.10 – 12.35	Tomas Everaert, *Relative commutator theory in varieties of* Ω*-groups*
Lunch	
2.10 – 2.40	Jon Woolf, *Derived categories 2*
2.45 – 3.10	Jürgen Koslowski, *What is the correct notion of morphism for interpolative semigroups?*
3.15 – 3.40	Jiří Adámek, *A logic of injectivity*
Break	including preseminar at 4.00: Tom Leinster, 'filtered' and 'flat'
4.15 – 4.40	Alexander Kurz, *Relating algebras on* Ind *and* Pro *completions*
4.45 – 5.10	Panagis Karazeris, *Flatness of functors into sites*
5.15 – 5.40	Christopher Townsend, *A representation theorem for geometric morphisms*
7.00	Dinner at Balbir, Church St

Sunday

9.15 – 9.55	Jon Woolf, *Derived categories 3*
10.00 – 10.25	Paul Taylor, *Computable real analysis without set theory or Turing machines*
10.30 – 10.55	Mehrnoosh Sadr-zadeh, *Between algebra and coalgebra: an application*
Break	including preseminar at 11.15: Emmanuel Galatoulas, quantum mechanics
11.30 – 11.55	Bob Coecke, *Quantum measurements as Eilenberg–Moore coalgebras*
12.00 – 12.25	Emmanuel Galatoulas, *Bicategorical notions of quantum mechanical processes: beyond quantaloids*
12.30 – 12.45	Tom Leinster, *A universal Banach space*
Finish	