

Applications of Sheaf Theory to Logic, Algebra and Analysis

PROGRAMME

In this combined list the invited lectures, shorter contributions, and talks in the discussion groups are listed roughly in order of presentation.

FIRST WEEK

- . Gray : Fragments of the history of sheaf theory.
- . Gray : An introduction to sheaves.
- .J. Mulvey : The language of sheaves.
- . Takeuti : Boolean-valued analysis. (Three lectures)
- .H. Hofmann : Banach bundles. (Two lectures)
- .S. Scott : Sheaves over Heyting algebras. (Two lectures)
- .C. Wraith : Toposes with group actions.
- .C. Wraith : Sheaf Cohomology.
- . Reyes : Models in sheaves. (Two lectures)
- . Coste : Spectra and admissible morphisms.
- . Jozsa : Sheaves in physics.
- . Tierney : Elementary topoi. (Two lectures)
- . van Dalen : Intuitionistic principles.
- . Aczel : Kinds of constructivity.
- . Hyland : Intuitionist's continuity.
- .P. Fourman : The logic of topoi.
- .W. Lawvere : The logic of mathematics.

Contents

H. Bass	Traces and Euler characteristics.	40pp
K. S. Brown	Groups of virtually finite dimension.	64pp
K. W. Gruenberg	Free abelianised extensions of finite groups.	41pp
J.-P. Serre (notes by C. McLachlan and C. A. Robinson)	Arithmetic groups.	34pp
G. P. Scott & C. T. C. Wall	Topological methods in group theory.	93pp
H. Abels	An example of a finitely presented group.	9pp
H. Behr	$SL_3(\mathbb{F}_q[t])$ is not finitely presentable.	13pp (+ 3pp figures)
R. Bieri & B. Eckmann	2-dimensional Poincaré duality groups and pairs.	7pp
R. Bieri & R. Strebel	Metabelian quotients of finitely presented soluble groups are finitely presented.	4pp
R. Bieri & R. Strebel	Soluble groups with coherent group rings.	5pp
P. J. Cameron	Cohomological aspects of 2-graphs II	4pp
M. J. Dunwoody	Recognising free factors.	5pp
M. N. Dyer	Trees of homotopy types of (π, m) -complexes.	6pp
W. J. Harvey	Geometric structure of surface mapping class groups.	19pp
J. Hubschmann	Cohomology of aspherical groups and of small cancellation groups.	2pp
D. L. Johnson & E. F. Robertson	Finite groups of deficiency zero.	18pp
W. Metzler	Äquivalenzklassen von Gruppenbeschreibungen, Identitäten und einfacher Homotopietyp in niedrigeren Dimensionen.	36pp
W. Metzler	Two-dimensional complexes with torsion values not realizable by self-equivalences.	15pp
G. Rosenberger	Applications of Nielsen's reduction method to the solution of combinatorial problems in group theory: a survey.	21pp
C. Soulé	Chevalley groups over polynomial rings.	10pp
	Problem list	25pp