

# Lecture Notes in Mathematics

A collection of informal reports and seminars

Edited by A. Dold, Heidelberg and B. Eckmann, Zürich

86

---

## Category Theory, Homology Theory and their Applications I

Proceedings of the Conference held at the Seattle Research  
Center of the Battelle Memorial Institute, June 24 – July 19, 1968  
Volume One

---

1969



Springer-Verlag Berlin · Heidelberg · New York

## Table of Contents

M. Barr	Coalgebras in a category of algebras .....	1
D. A. Buchsbaum	Lectures on Regular Local Rings .....	13
R. Fittler	Categories of modules with initial objects.....	33
J. F. Kennison	Coreflection maps which resemble universal coverings	46
J. Lambek	Deductive systems and categories (II).....	76
S. MacLane	Possible programs for categorists .....	123
R. C. Paré	Absolute coequalizers .....	132
S. Shatz	Galois theory.....	146
H. Stauffer	Derived functors without injectives.....	159
M. Tierney and W. Vogel	Simplicial derived functors .....	167
F. Ulmer	Acyclic models and Kan extensions .....	181
M. Zisman	Derived category and Poincaré duality .....	205