

Lecture Notes in Mathematics

Edited by A. Dold and B. Eckmann

1292

J. T. Baldwin (Ed.)

Classification Theory

Proceedings of the U.S.-Israel Workshop
on Model Theory in Mathematical Logic
held in Chicago, Dec. 15–19, 1985



Springer-Verlag

Berlin Heidelberg New York London Paris Tokyo

Editor

John T. Baldwin
Department of Mathematics, Statistics and Computer Science
University of Illinois
Box 4348, Chicago, IL 60680, USA

Mathematics Subject Classification (1980): 03C

ISBN 3-540-18674-3 Springer-Verlag Berlin Heidelberg New York
ISBN 0-387-18674-3 Springer-Verlag New York Berlin Heidelberg

This work is subject to copyright. All rights are reserved, whether the whole or part of the material is concerned, specifically the rights of translation, reprinting, re-use of illustrations, recitation, broadcasting, reproduction on microfilms or in other ways, and storage in data banks. Duplication of this publication or parts thereof is only permitted under the provisions of the German Copyright Law of September 9, 1965, in its version of June 24, 1985, and a copyright fee must always be paid. Violations fall under the prosecution act of the German Copyright Law.

© Springer-Verlag Berlin Heidelberg 1987
Printed in Germany

Printing and binding: Druckhaus Beltz, Hemsbach/Bergstr.
2146/3140-543210

TABLE OF CONTENTS

J.T. Baldwin Classification Theory 1985	1
J.T. Baldwin and J. Berman Concrete representations of lattices and the fundamental order	24
S. Buechler Classification of small weakly minimal sets I.	32
Z. Chatzidakis, G.L. Cherlin, G. Srouf, S. Shelah, & C. Wood The dimensional order property for separably closed fields	72
V. Harnik Countable or ω_1 -like models of Presburger's arithmetic	89
B. Hart An exposition of OTOP	107
J.T. Baldwin and Charles Steinhorn Exercises on Local Weight	127
U. Hrushovski Locally modular regular types	132
H.J. Keisler Choosing elements in a saturated model	165
J. Knight Degrees of models with prescribed Scott set	182
J. Knight & A.H. Lachlan Shrinking, stretching and codes for homogeneous structures	192
L. Manevitz & L. Rowan Freedom via forcing	230
A. Pillay Simple superstable theories	247
S. Shelah Universal Classes: Part I	264
S. Shelah Nonelementary classes: Part II	419
S. Shelah On almost categorical theories	498