

TABLE OF CONTENTS

Introduction <i>R. J. Russell</i>	1
I. SCIENTIFIC BACKGROUND: STANDARD AND QUANTUM COSMOLOGIES	
Introduction to General Relativity and Cosmology <i>G. F. R. Ellis and W. R. Stoeger</i>	35
Quantum Theories of the Creation of the Universe <i>C. J. Isham</i>	51
II. METHODOLOGY: RELATING THEOLOGY AND SCIENCE	
On Theological Interpretations of Physical Creation Theories <i>M. Heller</i>	93
Metaphors and Time Asymmetry: Cosmologies in Physics and Christian Meanings <i>S. Happel</i>	105
III. PHILOSOPHICAL ISSUES: TIME AND THE LAWS OF NATURE	
The Debate over the Block Universe <i>C. J. Isham and J. C. Polkinghorne</i>	139
The Intelligibility of Nature <i>P. C. W. Davies</i>	149
Quantum Cosmology, the Role of the Observer, Quantum Logic <i>A. A. Grib</i>	165
Divine Action, Human Freedom, and the Laws of Nature <i>W. Alston</i>	185
Contemporary Physics and the Ontological Status of the Laws of Nature <i>W. R. Stoeger</i>	207

IV. THEOLOGICAL IMPLICATIONS 1: TIME AND QUANTUM COSMOLOGY

The Temporality of God
J. R. Lucas 235

God as a Principle of Cosmological Explanation
K. Ward 247

The Trinity In and Beyond Time
T. Peters 263

Finite Creation without a Beginning: The Doctrine of Creation
in Relation to Big Bang and Quantum Cosmologies
R. J. Russell 291

A Case Against Temporal Critical Realism? Consequences
of Quantum Cosmology for Theology
W. B. Drees 327

V. THEOLOGICAL IMPLICATIONS 2: THE LAWS OF NATURE

The Theology of the Anthropic Principle
G. F. R. Ellis 363

Evidence of Design in the Fine-Tuning of the Universe
N. Murphy 401

The Laws of Nature and the Laws of Physics
J. Polkinghorne 429

LIST OF CONTRIBUTORS 441

INDEX 443