

Cambridge University Press 978-1-107-43183-6 — 'Nature and the Greeks' and 'Science and Humanism' Erwin Schrödinger Table of Contents More Information

CONTENTS

Foreword by Roger Penrose vii

0

NATURE AND THE GREEKS

ı	to ancient thought	3
Н	The competition, reason v. senses	22
Ш	The Pythagoreans	34
١V	The Ionian Enlightenment	53
٧	The religion of Xenophanes. Heraclitus of Ephesus	69
۷I	The Atomists	75
VII	What are the special features?	90
	Bibliography	99

00

SCIENCE AND HUMANISM

Preface	103
The spiritual bearing of science on life	105
The practical achievements of science tending to obliterate its	
true import	113
A radical change in our ideas of	
matter	115
Form, not substance, the	
fundamental concept	122
The nature of our 'models'	125
Continuous description and	
causality	130



Cambridge University Press 978-1-107-43183-6 — 'Nature and the Greeks' and 'Science and Humanism' Erwin Schrödinger Table of Contents More Information

The intricacy of the continuum	133
The makeshift of wave mechani	ics 143
The alleged break-down of the barrier between subject and ob	ject 151
Atoms or quanta – the counter- of old standing, to escape the intricacy of the continuum	spell 157
Would physical indeterminacy give free will a chance?	162
The bar to prediction, accordin to Niels Bohr	g 168
Literature	172