

# Contents

Foreword .....	v
Erwin Schrödinger – personal reminiscences by Walter Thirring .....	1
Schrödinger and the genesis of wave mechanics by Jürgen Renn .....	9
Do we understand quantum mechanics – finally? by Jürg Fröhlich and Baptiste Schubnel .....	37
Schrödinger's cat and her laboratory cousins by Anthony J. Leggett .....	87
Digital and open system quantum simulation with trapped ions by Markus Müller and Peter Zoller .....	109
Optomechanical Schrödinger cats – a case for space by Rainer Kaltenbaek and Markus Aspelmeyer .....	123
A quantum discontinuity: the Bohr–Schrödinger dialogue by Helge Kragh .....	135
The debate between Hendrik A. Lorentz and Schrödinger on wave mechanics by Anne J. Kox .....	153
A few reasons why Louis de Broglie discovered Broglie's waves and yet did not discover Schrödinger's equation by Olivier Darrigol .....	165
Chronology .....	175
List of contributors .....	179
Name index .....	181
Subject index .....	183