

# Preface

Foundational questions and the status of proof have long been central to philosophy of mathematics, although mathematicians do a lot more than just prove results. However, most mathematical practice may still be understood in terms of argument. Thus philosophy of mathematics needs an account of argument. Argumentation theory seems like a good place to look. The intersection of the two, although largely unexplored, has the potential to be hugely fruitful. This book brings together important pioneering work from a variety of sources with newly commissioned articles to provide an overview of the topic.

Our first editorial venture on this theme was a special issue of the journal *Foundations of Science* published in 2009. We are grateful to Diederik Aerts, the editor, for his support. Two of the articles from that collection are republished here, and the authors of two others have contributed new chapters, however we should like to thank all of the contributors: Jody Azzouni; Edwin Coleman; Bart Van Kerkhove and Jean Paul Van Bendegem; David Sherry; Zenon Kulpa; Matthew Inglis and Juan Pablo Mejía-Ramos; Alison Pease, Alan Smaill, Simon Colton and John Lee. We are grateful to our editors at Springer, Lucy Fleet, Ties Nijssen and Christi Lue.

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Las Vegas, Nevada  
December 2012

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The Argument of Mathematics

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2013, X, 393 p.,

ISBN: 978-94-007-6534-4