

Publications by World Famous Physicists

# A Unique Collection of Michael Berry's Works

Professor Sir Michael Berry's  
500th publication

**M**ichael Berry is a theoretical physicist who has contributed to a wide variety of areas in quantum mechanics, optics and related mathematics, linked by the geometrical aspects of waves, especially phase. This collection of his selected published and unpublished papers, reviews, tributes to other scientists, speeches and other works ranges from the technical to the popular. It is organized by the themes of his significant scientific contributions. Detailed introductions emphasize the rich connections between the different themes. An essential read for physicists, mathematicians, students and philosophers of science.

#### Contents:

Phases; Caustics and Related Optics; Quantum Chaology; Asymptotics; Superoscillations; Philosophy; Tributes; Travels; Miscellaneous

#### Key Features:

- Unique summary of a fifty-year career
- Emphasis on conceptual connections within physics

800pp

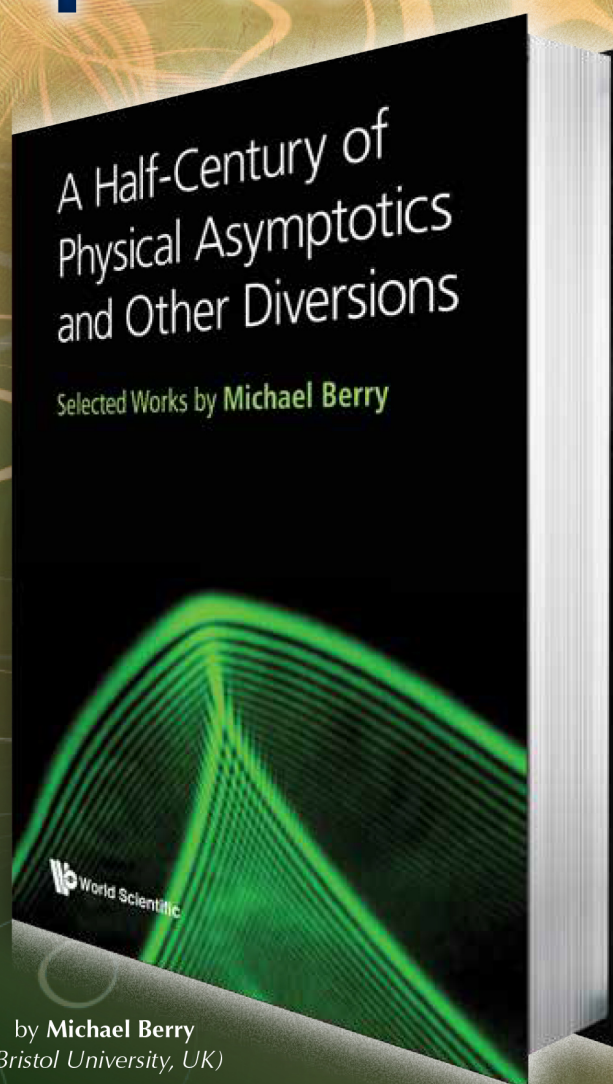
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by **Michael Berry**  
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**Sir Michael Berry** is the Melville Wills Professor of Physics (Emeritus) at Bristol University where he has been for twice as long as he has not. Elected a fellow of the Royal Society of London in 1982 and knighted in 1996, Sir Michael has enjoyed a long and illustrious career in physics, winning many of the most prestigious awards in the field. These include the Paul Dirac Medals in 1990 and 1996, the Wolf Prize in Physics in 1998 and the Lorentz Medal in 2015. Specializing in asymptotic physics and quantum chaos, he is associated with the Berry phase, a concept applicable to a number of areas, including quantum mechanics, optics and condensed-matter physics.