
Preface

For more than two decades, Hang Lung Mathematics Awards (HLMA) continues to cultivate excellence through original mathematical research conducted by Hong Kong's promising young talents. This collection features research papers written by the winners of the 2025 HLMA.

Through rigorous research projects, winners gain first-hand experience in conducting independent scholarly inquiry, an invaluable foundation for their future academic and professional pursuits. Many of our past winners have since made meaningful impact across diverse and cutting-edge industries, emerging as the next generation of innovators and leaders. In nurturing young talent and encouraging intellectual exploration, HLMA seeks to strengthen Hong Kong's role in the global innovation landscape.

We are honored to have Professor Richard Schoen, 2017 Wolf Prize Laureate in Mathematics, as Chair of the HLMA Scientific Committee, and Professor Ngaiming Mok, 2022 Future Science Prize Laureate in Mathematics and Computer Science, to lead the Steering Committee. We also thank the members of our Scientific Committee, Steering Committee, Executive Committee, and Screening Panel for their dedication, expertise, and steadfast support of HLMA's vision.

We hope that this collection will serve as both a record of achievement and a source of inspiration. We encourage readers to explore mathematics with the same depth of curiosity and determination demonstrated by our winners, and to follow their paths in addressing the complex challenges of the world today.

Mr. Adriel Chan
Chair
Hang Lung Properties Limited

Professor Nancy Ip
President and The Morningside Professor of
Life Science
The Hong Kong University of Science and
Technology