

THE  
SHAW  
PRIZE  
邵逸夫獎

FOR THE BENEFIT OF MANKIND

ASTRONOMY | LIFE SCIENCE & MEDICINE | MATHEMATICAL SCIENCES



## ABOUT

**The Shaw Prize** is an international award to honour individuals, regardless of race, nationality, gender and religious belief, who are currently active in their respective fields and who have recently achieved distinguished and significant advances, who have made outstanding contributions in academic and scientific research or applications, or who in other domains have achieved excellence. The award is dedicated to furthering societal progress, enhancing quality of life, and enriching humanity's spiritual civilization.

Preference is to be given to individuals whose significant works were recently achieved and who are currently active in their respective fields.

The Shaw Prize consists of three annual awards: the Prize in Astronomy, the Prize in Life Science and Medicine, and the Prize in Mathematical Sciences. Each prize consists of a medal, a certificate and a monetary award of one million two hundred thousand US dollars.



## THE SHAW PRIZE

### The Prize in Astronomy

Astronomy has experienced tremendous growth and development during the past fifty years as the entire electromagnetic spectrum from radio waves to gamma rays was opened to investigation. Remarkable progress has been achieved in our understanding of the origin and evolution of the universe; the structure and dynamics of galaxies; the birth, life, and death of stars and stellar systems; and the formation and ubiquity of planetary systems. The names of exotic objects such as supernovae, quasars, pulsars, and black holes have entered the public lexicon, and have captured the imagination of people, young and old, all over the world.

A new golden age of astronomy can be expected in the twenty-first century as the research tools of the more traditional disciplines are brought to bear on the great astronomical problems, and as novel windows are opened to the universe, using neutrinos and gravitational radiation to explore extreme configurations of matter and energy not accessible to terrestrial laboratories.

### The Prize in Life Science & Medicine

Discoveries in the biomedical sciences and innovations in clinical medicine have led to significant victories in our longstanding war against illness and suffering. With the mapping of the entire human genome, we are now closer to the understanding of the mechanisms of life, aging, illness and death, opening up exciting new opportunities for advances in therapeutics. Novel insights in the life science and technological advances in medicine will result in better health and an improved quality of life for the human race in the new century.

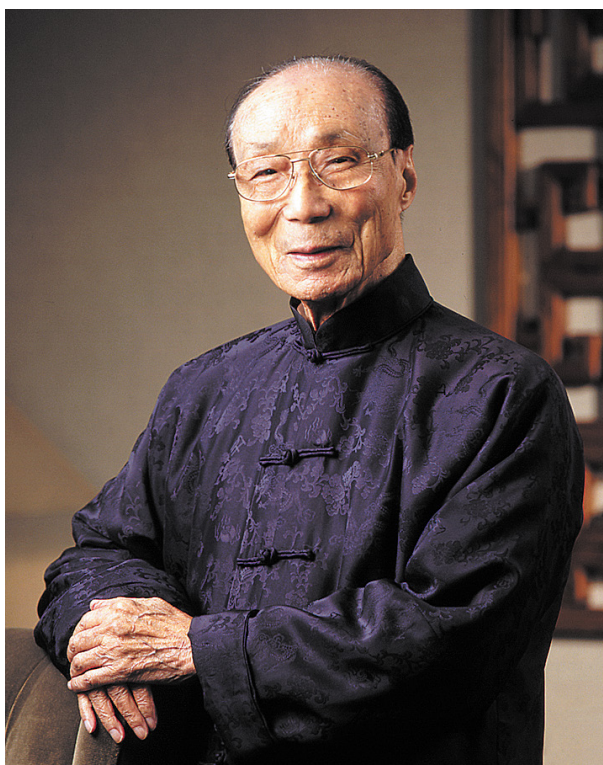
### The Prize in Mathematical Sciences

Mathematics is the basic language of all natural sciences and all modern technology. In the twentieth century mathematics made tremendous strides both in opening new frontiers and in solving important and difficult old problems. Its influence permeates every creative scientific and technological discipline, and extends into the social science.

With the developments in computer science, information technology, and statistics in the twentieth century, the importance of mathematics to mankind will be further enhanced in the twenty-first century.

## BACKGROUND

**Established in November 2002** under the auspices of Mr Run Run Shaw and brought to prominence by his wife Mrs Mona Shaw, the Prize honours individuals, regardless of race, nationality, gender and religious belief, who have achieved significant breakthroughs in academic and scientific research or applications and whose works have resulted in positive and profound impacts on mankind. The Shaw Prize is an international award managed and administered by The Shaw Prize Foundation based in Hong Kong.



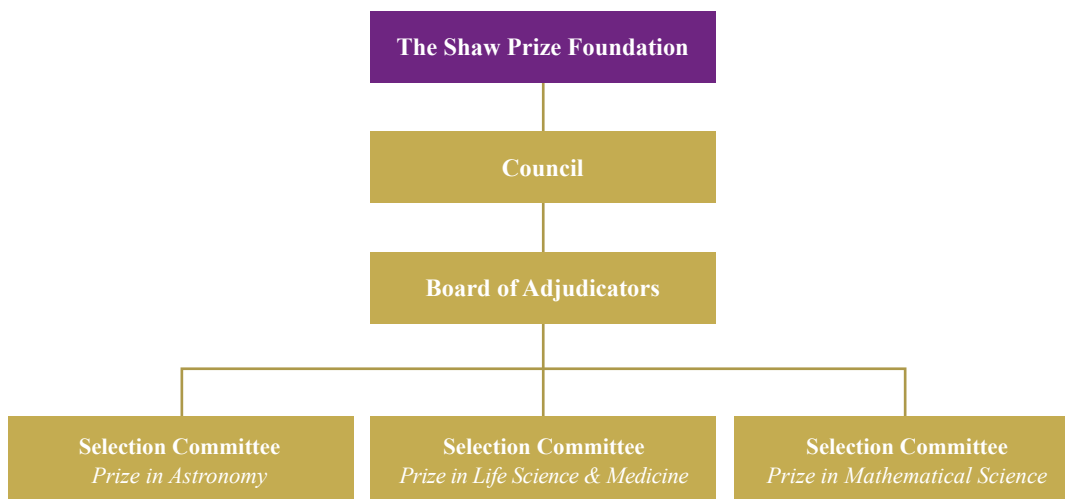
## THE FOUNDER

**Mr Run Run Shaw** (1907–2014), born in China in 1907, was a native of Ningbo County, Zhejiang Province. He joined his brother's film company in China in the 1920s. During the 1950s he founded the film company Shaw Brothers (Hong Kong) Limited in Hong Kong. He was one of the founding members of Television Broadcasts Limited (TVB) launched in Hong Kong in 1967. As an established figure in the film and media industry, Mr Shaw gained insight into the needs of the people, and as a visionary he saw how, in addition to the fleeting escapism of entertainment, the more substantial benefits of education and healthcare would greatly impact lives for the better. He established two charities: The Shaw Foundation Hong Kong and The Sir Run Run Shaw Charitable Trust, both dedicated to the promotion of education, scientific and technological research, medical and welfare services, and culture and the arts.

The Shaw Foundation quickly gained momentum in a wide range of philanthropic work: supporting educational institutions as well as hospitals and clinics in Hong Kong, the rest of China and beyond. Expanding his vision into new areas convinced him that the quest for knowledge is key to sustaining the advancement of civilization, and strengthened his belief that scientists focused on unmasking the mysteries of nature are pivotal to the well-being of mankind. He decided to use his influence, with the unfailing support of his wife **Mrs Mona Shaw**, by establishing The Shaw Prize to inspire and recognize imaginative individuals committed to scientific research and to highlight their discoveries. The Award continues to gain in stature, casting a beam of recognition on outstanding scientific achievements, and firing the imagination of future pioneers to emulate him in spirit and in deed, sustaining the continued success of the Shaw Foundation and the Shaw Prize Foundation as lasting tributes not only to Mr Shaw's wisdom and generosity, but also to the persevering commitment undertaken by Mrs Shaw.

# STRUCTURE

The Shaw Prize is managed and administered by The Shaw Prize Foundation.  
A four-tier organization is established to be responsible for this.



## **The Shaw Prize Foundation Board of Directors**

---

Dr CHAN Wai Man, Raymond *Chair*  
Ms Meage CHOY  
Ms Jenny LI  
Mr Jerry RAJAKULENDRAN

## **Founding Members of Council**

---

Mrs Mona SHAW (1934 - 2017)  
Professor Lin MA (1924 - 2017)  
Professor Chen-Ning YANG

## **Council**

---

Professor Kenneth YOUNG *Chair*  
Dr CHAN Wai Man, Raymond  
Professor Wai-Yee CHAN  
Professor Pak-Chung CHING  
Professor Reinhard GENZEL  
Professor Yuet-Wai KAN

## **Board of Adjudicators**

---

Professor Reinhard GENZEL *Chair*  
Professor Kenneth YOUNG *Vice Chair*  
Professor Scott D TREMAINE  
Professor Bonnie L BASSLER  
Professor Hélène ESNAULT

## **Selection Committee for Prizes\***

---

Prize in Astronomy  
Prize in Life Science & Medicine  
Prize in Mathematical Sciences

*\*For the members' list, please refer to the next page*

**The Shaw Prize**  
**Board of Adjudicators and Selection Committees**  

---

**2023**

Chair  
**Professor Reinhard GENZEL**  
*Max Planck Institute for Extraterrestrial Physics  
GERMANY*

Vice Chair  
**Professor Kenneth YOUNG**  
*The Chinese University of Hong Kong*

Chair  
**Prize in Astronomy**  
*Selection Committee*

**Professor Scott D TREMAINE**  
*Professor  
University of Toronto, Canada and  
Institute for Advanced Study, Princeton  
USA*

Members

**Professor Gilles CHABRIER**  
*Professor  
Centre de Recherche Astrophysique de Lyon,  
France and Professor of Astronomy  
University of Exeter, UK*

**Professor Sandra M FABER**  
*Professor Emerita  
Department of Astronomy & Astrophysics  
University of California, Santa Cruz, USA*

**Professor Eiichiro KOMATSU**  
*Director, Department of Physical Cosmology  
Max Planck Institute for Astrophysics  
GERMANY*

**Professor Elaine M SADLER**  
*Professor of Astrophysics  
School of Physics  
The University of Sydney, AUSTRALIA*

Chair  
**Prize in Life Science & Medicine**  
*Selection Committee*

**Professor Bonnie L BASSLER**  
*Squibb Professor and Chair  
Department of Molecular Biology  
Princeton University, USA*

Members

**Professor Michael HALL**  
*Professor Biozentrum,  
University of Basel, SWITZERLAND*

**Professor Marina V RODNINA**  
*Director and Scientific Member  
Max Planck Institute for  
Multidisciplinary Sciences  
GERMANY*

**Professor Joan A STEITZ**  
*Sterling Professor of Molecular Biophysics  
and Biochemistry, School of Medicine,  
Yale University, USA*

**Professor Marc TESSIER-LAVIGNE**  
*President and Bing Presidential Professor  
Stanford University, USA*

**Professor Fiona M WATT**  
*Professor of Regenerative Medicine and  
Director of Centre for Stem Cells &  
Regenerative Medicine,  
King's College London, UK*

**Professor Huda Y ZOGHBI**  
*Professor of Pediatrics, Molecular and  
Human Genetics, Neurology and Neuroscience  
Baylor College of Medicine, USA*

Chair  
**Prize in Mathematical Sciences**  
*Selection Committee*

**Professor Hélène ESNAULT**  
*Einstein Professor of Mathematics  
Mathematisches Institut  
Freie Universität Berlin, GERMANY*

Members

**Professor Gerd FALTINGS**  
*Director and Scientific Member  
Max Planck Institute for Mathematics  
GERMANY*

**Professor Takashi KUMAGAI**  
*Professor  
Department of Mathematics  
Faculty of Science and Engineering  
Waseda University,  
Tokyo, JAPAN*

**Professor Ngaiming MOK**  
*Edmund and Peggy Tse Professor and  
Chair of Mathematics  
Department of Mathematics  
The University of Hong Kong*

**Professor Horng-Tzer YAU**  
*Merton Professor of Mathematics  
Department of Mathematics  
Harvard University  
USA*

## NOMINATION

**Nomination to the Shaw Prize** is by invitation only. The Board of Adjudicators of the Shaw Prize shall determine the Nominators for each prize and all nominations, whether in preparation by Nominators or adjudication by the Selection Committees shall be kept strictly confidential.

The nomination process begins in September every year, the winners to be announced in the summer and the prizes presented in autumn in the following year.



THE  
SHAW  
PRIZE  
邵逸夫獎

**CONTACT US**

**The Shaw Prize Secretariat**

*Level 5, Shaw House, Shaw Studios  
201 Wan Po Road, Tseung Kwan O  
N.T., Hong Kong*

*Tel (852) 2994 4888*

*Fax (852) 2994 4881*

*Email [info@shawprize.org](mailto:info@shawprize.org)*

*Press enquiry [press@shawprize.org](mailto:press@shawprize.org)*

*[www.shawprize.org](http://www.shawprize.org)*