

弦理論和宇宙隱維的幾何 **The Shape of Inner Space**

<<內空間之形：弦理論和宇宙隱秘維度幾何學>>是丘成桐教授於2010年9月推出的最新力作。這亦是他首次用非學術的語言，向廣大科普愛好者揭示十維空間的奧秘。觀眾可隨著丘成桐教授深邃的思維，瞭解人類對宇宙的認識，回顧幾何學研究的歷程，並展望數學帶給人類的未來。

弦理論指出，我們生活在十維的宇宙中，但是只有四維時空是可見的。弦理論學家認為，剩餘的六維空間蜷縮在一個幾何結構特異的空間中，稱為卡拉比-丘流形。在這個演講中，丘成桐教授將通過數學與物理學的互惠結合，講述關於這些空間的故事。

The Shape of Inner Space: String Theory and the Geometry of the Universe's Hidden Dimensions is Prof. Shing-Tung Yau's latest masterpiece launched in September 2010. In this book, he unveiled the mysteries of a ten-dimensional universe in plain language. This book discusses mankind's understanding of the universe, reviews the evolution in the studies of geometry, and envisions the future mathematics will bring to mankind.

String theory assumes that spacetime has ten dimensions overall. The three large spatial dimensions that we're familiar with, plus time, make up the four-dimensional spacetime of Einstein's theory. But there are also six additional dimensions hidden away in Calabi-Yau space. During the talk, Prof. Yau will tell the story of those spaces. He will also discuss how mathematics and physics can come together to the benefit of both fields, particularly in the case of Calabi-Yau spaces and string theory.