



# Starting with Complex Numbers

## 從複數談起

### Professor Xiangyu Zhou 周向宇教授

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Date : June 13, 2017 (Tuesday)

Time : 6:00 – 7:00 pm (Tea Reception starts at 5:30 pm)

Venue : Wang Gungwu Lecture Hall (王賡武講堂), Graduate House,  
The University of Hong Kong

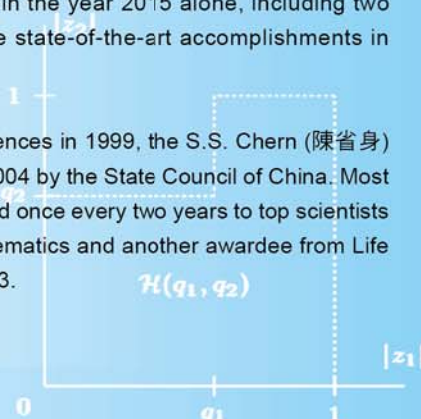
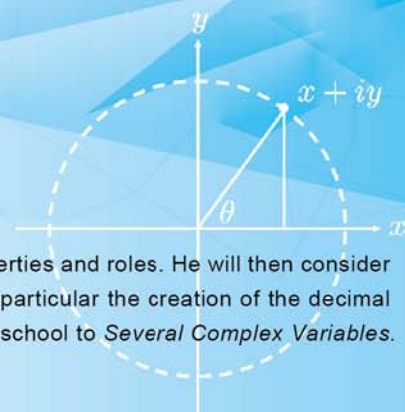
#### Abstract:

In this lecture, Professor Zhou will talk first about the history of complex numbers, their basic properties and roles. He will then consider the history of natural numbers, including the contributions from ancient Chinese mathematics, in particular the creation of the decimal place value system. Finally, he will present some contributions of Hua Loo-Keng (華羅庚) and his school to *Several Complex Variables*.

#### About the speaker:

Professor Xiangyu Zhou was well-known at the beginning of his career for his work in *Several Complex Variables solving the Extended Future Tube Conjecture*, published in 1994-98 in *Proceedings of Steklov Math. Inst., Dokl. and Izvestiya, Ser. Math., Russian Academy of Sciences*. More recently, he led a group of researchers in China in the study of optimal estimates of the Cauchy-Riemann operator in the subject of *Several Complex Variables*, and solved a number of outstanding conjectures including the Openness Conjecture. His spectacular work in recent years has led to a series of impressive publications with four top-level publications in the year 2015 alone, including two articles in *Annals of Mathematics* and one article in *Inventiones Mathematicae*. These results are state-of-the-art accomplishments in Mathematics at the interface of *Analysis, Geometry and Partial Differential Equations*.

Professor Zhou was awarded the Natural Science Award (First Class) of the Chinese Academy of Sciences in 1999, the S.S. Chern (陳省身) Prize in 2001 by the Chinese Mathematical Society, and the State Natural Science Award of China in 2004 by the State Council of China. Most recently, he received in 2016 the Tan Kah Kee (陳嘉庚) Science Prize. This prestigious prize is awarded once every two years to top scientists from all scientific fields, and in 2016 there were only two awardees – Professor Zhou from Pure Mathematics and another awardee from Life Sciences. Professor Zhou was elected as an Academician of the Chinese Academy of Sciences in 2013.



No registration is required.

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