

Special Program in Applied Mathematics and Applied Mechanics

Mapping Brain Connective Network with MRI

2015 - 11 - 18 (Wed.)

15:00 - 18:00

308, Mathematics Research Center Building (ori. New Math. Bldg.)

In the past few years, the neuroimaging technologies to map the brain connectomics have been widely developed and implemented on basic neuroscience researches and a variety of clinical applications in neurological diseases or psychiatric disorders. Among these technologies, non-invasive MRI has been considered as the most reliable and reproducible neuroimaging modality to study the brain connectomics in adequate spatial and temporal resolution. In this talk, I will introduce how MRI could map the brain connectomics and how to analyze the connective network using graph theory. Also, its relevance to neuroscience researches and future translational applications will be discussed.



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