

The Tutte Polynomial and HOMFLY Polynomial  
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Date: 12 Jun 12 (Tues)  
Time: 2.30 pm – 3.15 pm  
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Abstract

In this talk, I will first associate a plane graph with an oriented link via replacing each edge of the graph by an alternatingly oriented 2-tangle, then establish a relation between the HOMFLY polynomial of the associated oriented link and the dichromatic (i.e. a variant of the Tutte polynomial) polynomial of the plane graph by assigning suitable edge weights. This result extends works of F. Jaeger and L. Traldi in the late 1980s. Finally I discuss some applications to polyhedral DNA links introduced in recent years in the field of chemistry and biology.

***All are Welcome!***

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