

# 中央研究院數學研究所

Institute of Mathematics, Academia Sinica

## Taipei Postdoc Seminar

**Speaker** : 金廣輝 博士 Dr. Guanghui Jin  
(National Center for Theoretical Sciences)

**Title** : **Remarks on Chern-Simons gauged  $O(3)$  sigma model in one space dimension**

**Abstract** :

In this talk, we find the stationary solutions of the Chern-Simons gauged  $O(3)$  sigma model in one space dimension and study an initial value problem under the gauge condition  $A_1 = 0$ . We also study low regularity local well-posedness using bilinear estimates for wave-Sobolev space. As by-product, finite energy global solution is constructed by considering the conservation of energy.

**Time** : 11:00 – 12:30, Wednesday, December 20, 2017

**Venue** : Room 638, Astro-Math. Buidling (NTU Campus)

**Organizer** : Chih-Wei Chen (NCTS), Jyun-Ao Lin (Academia Sinica)

**Refreshment** : 10:30

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