



Department of Mathematics
The Chinese University of Hong Kong

For Favour of Posting

數學系
香港中文大學

Phone: (852) 3943 7988 • Fax: (852) 2603 5154 • Email: dept@math.cuhk.edu.hk (Math. Dept.)
Room 220, Lady Shaw Building, The Chinese University of Hong Kong, Shatin, N.T., Hong Kong

Seminar

Symplectic fillings versus Milnor fibers of a normal surface singularity

Prof. Jongil PARK
Department of Mathematical Sciences,
Seoul National University

Abstract

One of active research areas in symplectic 4-manifolds is to classify symplectic fillings of certain 3-manifolds equipped with a contact structure. Among them, people have long studied symplectic fillings of the link of a normal complex surface singularity. Note that the link of a normal complex surface singularity carries a canonical contact structure which is also known as the Milnor fillable contact structure. On the other hand, algebraic geometers also have studied Milnor fibers as a general fiber of smoothings for a normal complex surface singularity.

In this talk, I'd like to explain a relation between minimal symplectic fillings and the Milnor fibers of quotient surface singularities. Furthermore, if a time allows, I'd also like to investigate the relation for weighted homogeneous surface singularities. This is a joint work with Heesang Park, Dongsoo Shin, and Giancarlo Urzúa.

Date : July 22, 2016 (Friday)
Time : 11:00 a.m. – 12:00 noon
Venue : Room 219, Lady Shaw Building,
The Chinese University of Hong Kong

All are Welcome