

中央研究院數學研究所

Institute of Mathematics, Academia Sinica

Taipei Postdoc Seminar

Speaker : 丸龜泰二 博士 Dr. Taiji Marugame
(本所 Academia Sinica)

Title : *Construction of global CR invariants via Cheng-Yau metric*

Abstract :

Strictly pseudoconvex domains in a Stein manifold admit a complete Kahler-Einstein metric called the Cheng-Yau metric. In this talk, I present two methods of constructing global CR invariants of the boundary using this metric. The first is the renormalized Chern-Gauss-Bonnet formula, which gives a higher dimensional generalization of the Burns-Epstein invariant. The second is the renormalized volume, which is shown to agree with the integral of the CR Q-prime curvature of the boundary. The second construction is joint work with K. Hirachi and Y. Matsumoto.

Time : 11:00 – 12:30, Wednesday, June 7, 2017

Venue : Room 202, Astro-Math. Buidling (NTU Campus)

Organizer : Yu-Yen Chien (NCTS), Jyun-Ao Lin (Academia Sinica)

Refreshment : 10:30

中央研究院數學研究所 敬上

2017.05.23