

# Dr. Chin-Yu Hsiao

Göteborg

## On the singularities of the Bergman kernel

In this work, we obtain the full asymptotic expansion of the Bergman projection for  $(0,q)$ -forms when the Levi form is non-degenerate. This generalizes a result of Boutet de Monvel and Sjöstrand for  $(0,0)$ -forms. We will explain our method in an elementary fashion. We hope that this talk can serve as an introduction to certain microlocal techniques with applications in complex analysis.