

Colloquium

The domain geometry and the bubbling phenomenon of rank two Gauge theory

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地 點：應用數學系多媒體教室（理 408 室）

摘 要：

Let G be the Green's function on a flat torus. One intriguing mystery of G is how the number of its critical points is related to blowup solutions of certain PDEs. In this talk, I will show that if fully bubbling solutions of Liouville type to Chern-Simons Model with two Higgs particles exist, the G has exactly three critical points. In addition, the necessary and sufficient conditions for the existence of fully bubbling solutions with multiple bubbles will be presented. Part of this talk is based on a joint work with Lei Zhang.