

MOSER-TRUDINGER TYPE INEQUALITIES FOR THE COMPLEX MONGE-AMPERE EQUATION

Online seminar

**Speaker: Bin Zhou
Peking University**

Time: Wed, May. 27th, 14:00-15:00

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Abstract: In this talk, I will give an introduction on Sobolev and Moser-Trudinger type inequalities for the complex Monge-Ampere equation. In particular, I will present a PDE proof to these inequalities. These inequalities can be applied to a PDE approach to a priori estimates for solutions to the equation with the right-hand side in L^p for any given $p > 1$. Our proof uses various PDE techniques but not the pluri-potential theory.