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Uniform estimates for complex Monge-Ampere equations

The complex Monge-Ampere equation occupies a central role in Kähler geometry, and the most subtle part of the theory of complex Monge-Ampere equations is perhaps the uniform estimate. In this talk, I will introduce the complex Monge-Ampere equation and discuss a new approach to establish sharp uniform estimates, this new method is very versatile and has the advantage of extending to a large family of fully non-linear equations. This is based on joint work with B. Guo and D.H. Phong.