

1148-53-226

Duong H Phong* (phong@math.columbia.edu), Department of Mathematics, Columbia University, New York, NY 10027. *On convergence criteria for the flow of Li-Yuan-Zhang.*

Many flows arise in physics and geometry which involve not just a single field, such as a metric, but rather several fields such as a metric and other tensor fields, coupled to one another. There is as yet very little known about such coupled systems. We discuss some preliminary results for such a flow, the k-LYZ flow, which is the parabolic version of a coupled system of a Hermitian metric with a (1,1)-form introduced by Y. Li, Y. Yuan, and Y. Zhang. This talk is based on recent joint work of the speaker with T. Fei and B. Guo. (Received February 03, 2019)