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92697. *Some estimates for complex Hessian equations*. Preliminary report.

The complex Hessian equation is a class of important fully nonlinear geometric elliptic equations which can be viewed as an intermediate equation between the Laplacian equations and the complex Monge-Ampère equations. In this talk, we will talk about some *a priori* estimates for a complex Hessian equation motivated from Fu-Yau's generalization of the Strominger system. This is a joint work with D. Phong and S. Picard. (Received January 27, 2016)