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Pak Tung Ho* (pho@math.purdue.edu), Department of Mathematics, Purdue University, West Lafayette, IN 47907. *The long time existence and convergence of the CR Yamabe flow.*

The main theme of the talk is about CR Yamabe flow on the compact strictly pseudoconvex CR manifold. I will show that the flow always converges when the CR invariant is positive. Partial result on the convergence of the flow will be discussed. I will also discuss the monotonicity of the eigenvalues of some geometric operators under the CR Yamabe flow. (Received June 15, 2009)