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Jeffrey Diller and **Kyounghee Kim*** (kim@math.fsu.edu), Department of Mathematics,
Florida State University, Tallahassee, FL 32308. *Entropy of real rational surface automorphisms.*

We compare real and complex dynamics for automorphisms of rational surfaces that are obtained by lifting some quadratic birational maps of the plane. We will discuss examples where the entropy of the full (complex) automorphism is the same as its real restriction. Also, we exhibit different examples where the entropy is strictly decreased by restricting to the real part of the surface. (Received September 05, 2019)