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Sudeb Mitra* (sudeb.mitra@qc.cuny.edu), Department of Mathematics, Queens College, CUNY, Flushing, NY , and **Hiroshige Shiga** (shiga@math.titech.ac.jp). *Some extensions of holomorphic motions*. Preliminary report.

Holomorphic motion of a closed set in the Riemann sphere, defined over a simply connected complex Banach manifold, can be extended to a quasiconformal motion of the sphere (in the sense of Sullivan and Thurston). In this talk, we will show that if the given holomorphic motion has a group equivariance property, the extended quasiconformal motion will share the same group equivariance property. We will also discuss the question of extension to the sphere of holomorphic motions defined over some Riemann surfaces. If time permits, we will discuss an example. The talk will highlight some interesting connections between holomorphic motions and Teichmüller theory. This is a joint work with Hiroshige Shiga. (Received August 15, 2008)