

1129-30-152

Hiroshige Shiga* (shiga@math.titech.ac.jp). *On the extension problem of holomorphic motions.*

Let E be a closed set in the Riemann sphere $\widehat{\mathbb{C}}$. We consider a holomorphic motion ϕ of E over a complex manifold M , that is, a holomorphic family of injections on E parametrized by M . A striking theorem by Slodkowski says that if M is the unit disk Δ in the complex plane, then any holomorphic motion of E over Δ can be extended to a holomorphic motion of the Riemann sphere over Δ . In this talk, we consider a generalization of Slodkowski's theorem. (Received March 12, 2017)