

1015-30-11

F. Jafari, Z. Slodkowski and **T. Tonev*** (tonevtv@mso.umt.edu). *Holomorphic Flows and Cocycles in Multiply Connected Domains.*

We give a complete description of holomorphic flows in multiply connected domains in the complex plane and demonstrates that, with the exception of the punctured disk, every semigroup flow on a k -connected domain, $k \geq 2$, extends to a group flow. Cocycles and coboundaries of these flows are fully characterized. (Received November 23, 2005)