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David M Bronicki* (bronickd@mail.gvsu.edu). *Exploring the foundations of Symplectic Geometry.*

In this talk, we explore symplectic geometry, a relatively new alternative to other geometries. We will give a description of a proof of the nonsqueezing theorem, a foundational theorem in symplectic geometry. To do so, we will explore basic properties of symplectic spaces and describe the function of J-holomorphic curves. (Received September 24, 2018)