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Tedi Draghici, Tian-Jun Li and Weiyi Zhang* (wyzhang@umich.edu), Department of Mathematics, 2074 East Hall, 530 Church Street, Ann Arbor, MI 48109. *Complex geometry of Symplectic 4-manifolds.*

It will be shown that several concepts/properties of algebraic surfaces would still hold for certain symplectic 4-manifolds with tamed almost complex structures. Examples include Dolbeault cohomology, Nakai-Moishezon duality and degenerations of rational curves. (Received July 06, 2012)