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**Bang-He Li** ([libh@iss06.iss.ac.cn](mailto:libh@iss06.iss.ac.cn)), Institute of Mathematics, Chinese Academy of Science, 100080, Beijing, Peoples Rep of China, and **Tian-Jun Li\*** ([tli@math.princeton.edu](mailto:tli@math.princeton.edu)), Department of Mathematics, Princeton University, Princeton, NJ 08544. *Minimal genus embeddings in symplectic four manifolds.*

The minimal genus of a degree two homology class of a manifold is the minimal genus of all embedded surfaces representing that class. We determine the minimal genus of large multiples of any class with positive square in non-ruled symplectic four manifolds with  $b^+ = 1$ . We also determine the minimal genus of some classes with negative square in blow ups of  $CP^2$ . (Received September 30, 2000)