1035-54-1655   **Helen Wong*** (`hwong@bowdoin.edu`), Bowdoin College, Department of Mathematics, 8600 College Station, Brunswick, ME 04011, and **Andrew Casson** (`andrew.casson@yale.edu`), Yale University Mathematics Department, PO Box 208283, New Haven, CT 06511. *Quantum invariants can provide sharp bounds on Heegaard genus.*

Using Seifert fibered examples of Boileau and Zieschang, we demonstrate that the Reshetikhin-Turaev quantum invariants may be used to provide a lower bound on the Heegaard genus which is strictly larger than the rank of the fundamental group. (Received September 20, 2007)