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**Jennifer Johnson-Leung\*** (jenfns@uidaho.edu), Department of Mathematics, University of Idaho, PO Box 441103, Moscow, ID 83844-1103, and **Brooks Roberts**. *Siegel modular forms of degree two attached to Hilbert modular forms.*

Let  $E/\mathbb{Q}$  be a real quadratic field and  $\pi_0$  a cuspidal, irreducible, automorphic representation of  $\mathrm{GL}(2, \mathbb{A}_E)$  with trivial central character and infinity type  $(2, 2n + 2)$  for some non-negative integer  $n$ . We show that there exists a Siegel paramodular newform  $F : \mathfrak{H}_2 \rightarrow \mathbb{C}$  with weight, level, Hecke eigenvalues, epsilon factor and  $L$ -function determined explicitly by  $\pi_0$ . We tabulate these invariants in terms of those of  $\pi_0$  for every prime  $p$  of  $\mathbb{Q}$ . (Received September 20, 2009)