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Charles Buehrle* (ceb405@lehigh.edu), Department of Mathematics, Lehigh University, Bethlehem, PA 18015. *A new construction of Kazhdan-Lusztig's representations of the Hecke algebra.*

We state vanishing results for Kazhdan-Lusztig immanants belonging to the quantum polynomial ring. Applying these results we find a new construction of Kazhdan-Lusztig's representation of the Hecke algebra without employing the Kazhdan-Lusztig preorder. (Received August 30, 2009)