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Yiqiang Li* (yiqiang@buffalo.edu). *On canonical bases of Letzter algebra $U^v(sl_2)$.*

Let U_i be Letzter's coideal subalgebra of a quantum algebra. The pair (U, U_i) forms a so-called quantum symmetric pair. It is recently observed that U_i admits a canonical basis theory. In this talk, we will discuss the geometric aspect of the theory and an explicit description of the canonical basis elements in the 'rank-one' case. (Received August 23, 2019)