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H. Tai Ha*, Tulane University, Department of Mathematics, 6823 St. Charles Ave., New Orleans, LA 70118, and **L. Ghezzi** and **O. Kashcheyeva**. *Toroidalization of generating sequences in dimension two function fields.*

Let k be an algebraically closed field of characteristic 0. Let L/K be a finite extension of function fields of transcendence degree 2 over k . Let v be a k -valuation of L with value group V , and let u be its restriction to K . Let $R \rightarrow S$ be an extension of regular local rings with quotient fields K and L , respectively, such that V dominates S and S dominates R . We show that there exist sequences of quadratic transforms $R \rightarrow R'$ and $S \rightarrow S'$ along v such that S' dominates R' and the map between generating sequences of u and v in R and S , respectively, has a toroidal structure. Our result extends the Strong Monomialization Theorem of Cutkosky and Piltant. (Received February 08, 2006)