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Gröbner bases for Kazhdan-Lusztig ideals

Schubert determinantal ideals are a class of generalized determinantal ideals which include the classical determinantal ideals. In this talk, we use the approach of "Gröbner basis via linkage" to give a new proof of a well-known result of Knutson and Miller: the essential minors of every Schubert determinantal ideal form a Gröbner basis with respect to a certain term order. We also adapt the Gröbner basis via linkage technique to the multigraded setting and use this to show that the essential minors of every Kazhdan-Lusztig ideal form a Gröbner basis with respect to a certain term order, thereby giving a new proof of a result of Woo and Yong.