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Karel Casteels* (kcasteel@sfu.ca), **Jason Bell** and **Stephane Launois**. *On the dimension of \mathcal{H} -strata in quantum matrices.*

We consider the prime spectrum of the algebra of quantum matrices. Goodearl and Letzter's \mathcal{H} -stratification theory has proven to be a useful tool, and in this talk we discuss the dimensions of the \mathcal{H} -strata. In particular, we give a surprisingly easy method to determine the dimension. This procedure is based on deriving a certain permutation from a combinatorial object known as a Cauchon diagram. (Received January 25, 2010)