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Sian Fryer* (s.fryer@leeds.ac.uk). *On prime ideals in quantum matrices and Poisson-primes in the semi-classical limit.*

It is well known that the prime ideals in (generic) quantum matrices and the Poisson-prime ideals in the corresponding Poisson matrix varieties behave in remarkably similar ways; they can even be studied using many of the same techniques. In all but the very simplest of cases, however, it remains an open question whether these two spaces of primes are actually homeomorphic. Building on recent techniques developed to study the prime spectra of quantum algebras, I will talk about how we can reduce the study of both spaces to the same purely commutative setting, and hence compare their topological structures. (Received February 06, 2015)