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**Milen Yakimov\*** ([yakimov@math.lsu.edu](mailto:yakimov@math.lsu.edu)), Department of Mathematics, Louisiana State University, Baton Rouge, LA 70803. *Open Richardson varieties in Poisson geometry and ring theory.*

We will describe how Lusztig's stratifications of partial flag varieties and open Richardson varieties appear in the framework of Poisson geometry. This combinatorial and geometric framework will then be used to classify the spectra of De Concini-Kac-Procesi algebras and quantum flag varieties. (Received January 24, 2011)