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Aaron Lauda and **Monica Vazirani*** (vazirani@math.ucdavis.edu), Math Dept, One Shields Ave, Davis, CA 95616. *On Khovanov-Lauda algebras.*

Khovanov-Lauda-Rouquier algebras have played a fundamental role in categorifying quantum groups. I will discuss the structure of their simple modules, in particular that they carry the structure of a crystal graph. This is joint work with Aaron Lauda. (Received September 09, 2009)