1146-17-397 **Maggie Rahmoeller*** (rahmoeller@roanoke.edu), Salem, VA 24153. Using Path Realization to Show the Tensor Product-Like Structure of Certain $U_q(\widehat{sl}(n))$ - Demazure Crystals.

In 1991, Kang, Kashiwara, Misra, Miwa, Nakashima, and Nakayashiki gave the path realizations of affine crystals as a semi-infinite tensor product of some finite crystals called perfect crystals. The crystal for a Demazure module of the quantum affine algebra $U_q(\widehat{s\ell}(n))$ is called a Demazure crystal. A Demazure crystal is a suitable subset of the crystal for the associated integrable module of $U_q(\widehat{s\ell}(n))$. Using the path realization of these Demazure crystals, we show that, for a fixed sequence of Weyl group elements, certain $U_q(\widehat{s\ell}(n))$ - Demazure crystals have tensor product-like structure. (Received January 27, 2019)