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Toshiki Nakashima* (toshiki@sophia.ac.jp), Kioicho 7-1, Chiyoda-ku, Tokyo, 102-8554, Japan. *Decorated Geometric Crystals and Monomial Realizations of Crystals.*

A decoration is a rational function with some invariant properties on a geometric crystal. We shall present the explicit form of a decoration on the geometric crystal $TB_{w_0}^-$ for a classical group G , where T is a maximal torus of G and w_0 is the longest element of the Weyl group. We shall see that the explicit form of the decoration is written in a positive sum of monomials appearing in the monomial realizations of crystal bases. (Received August 19, 2012)