1030-14-362   **N. Elizabeth Csima*** (`ecsima@math.uchicago.edu`), Department of Mathematics, University of Chicago, 5734 S. University Ave., Chicago, IL 60637. *Newton-Hodge Filtration for Self-Dual F-Crystals.* Preliminary report.

We describe F-crystals with self-dual structure over base schemes of characteristic p. We will present a version of Katz's Newton-Hodge Filtration Theorem for self-dual F-crystals. This result can be thought of as a group theoretical generalization of the original Newton-Hodge Filtration Theorem for orthogonal and symplectic groups. (Received August 07, 2007)