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Crystal for stable Grothendieck polynomials.

We construct a type A crystal whose character is the stable Grothendieck polynomials for fully-commutative permutations. This crystal is a K-theoretic generalization of Morse-Schilling crystal on decreasing factorizations. We prove, among other things, that this crystal is isomorphic to that of pairs of semistandard Young tableaux using a newly defined insertion. This offers a combinatorial interpretation to the Schur positivity of the stable Grothendieck polynomials. This is joint work with Jennifer Morse, Jianping Pan and Anne Schilling. (Received August 12, 2020)