The *cd*-index of the poset of intervals and E_t-construction

Duško Jojić

University of Banja Luka

Bosnia and Hercegovina

The *cd*-index of an Eulerian poset is a homogenous polynomial in two noncommutative variables, which encode the flag f-vector in the most efficient way. For a given poset P, we consider $I(P)$ (poset of all intervals in P) and E_t construction over P and define linear operators $\mathcal{I}$ and $\mathcal{E}_t$ which describe the *cd*-index of these new posets in the terms of *cd*-index of P.