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The correspondence between spanning trees of the Tait graph of a knot diagram  $K$  and twisted unknots in the skein resolution tree of  $K$  gives a partial order on the spanning trees. Using the spanning tree homology point of view this partial order induces a filtration on the reduced Khovanov complex. We will show that the associated spectral sequence converges to the reduced Khovanov homology. We will discuss some interesting properties of this spectral sequence and describe its  $E_1$  term. (Received September 25, 2006)