1077-57-2413 John A Baldwin* (baldwinj@math.princeton.edu), Department of Mathematics, Fine Hall, Washington Road, Princeton, NJ 08544-1000. Grid diagrams and the spectral sequence from Khovanov to Heegaard Floer homology.

For a link L in the 3-sphere, Ozsvath and Szabo define a spectral sequence whose E_2 term is the reduced Khovanov homology of L and which converges to the Heegaard Floer homology the double cover of 3-sphere branched along L. There are two known ways of computing the higher terms in this spectral sequence - one uses bordered Floer homology and the other uses a link surgeries formula discovered by Manolescu and Ozsvath. I'll discuss a conceptually much simpler way of computing these higher terms using grid-like diagrams and will talk about potential applications. (Received September 22, 2011)