1053-57-250 **Carmen L Caprau\*** (ccaprau@csufresno.edu), Department of Mathematics, 5245 North Backer Avenue, M/S PB 108, Fresno, CA 93740. On the filtered sl(2) foam cohomology for links. Preliminary report.

The universal sl(2) foam cohomology is a bigraded link cohomology theory that corresponds to a Frobenius algebra structure defined on  $\mathbb{Z}[X, i, a, h]/(X^2 - hX - a)$ , where a and h are formal parameters and i is the primitive fourth root of unity. This theory is constructed via a setup with webs and foams (seamed cobordisms) modulo a finite set of relations.

Given an oriented link L and letting a and h be complex numbers such that  $f(X) = X^2 - hX - a$  has two distinct roots, we obtain a filtered invariant for L, denoted by  $H_{a,h}(L, \mathbb{C})$ . In this talk we will focus on the existence of a spectral sequence converging to  $H_{a,h}(L, \mathbb{C})$  with  $E_1$ -page isomorphic to Khovanov's sl(2) invariant over  $\mathbb{C}$ . The  $E_1$  and higher terms of this spectral sequence are invariants of L. Moreover, one can obtain a Rasmussen-type invariant via the foam setting, by using the above spectral sequence. (Received September 07, 2009)