1039-57-79 **Carmen L Caprau*** (ccaprau@csufresno.edu), Department of Mathematics, 5245 North Backer Avenue M/S PB108, Fresno, CA 93740-8001. The universal sl(2)-link cohomology via webs and foams.

We introduce a geometric approach to the universal sl(2)-link cohomology that corresponds to a Frobenius system given by $\mathbb{Z}[i][X, h, t]/(X^2 - hX - t)$. The construction uses webs and singular cobordisms between them (called foams) modulo local relations, and categorifies the unnormalized Jones polynomial. Moreover, the theory is properly functorial under link cobordisms, yielding an invariant for surface-knots. (Received March 06, 2008)