1060-57-94David Gabai* (gabai@princeton.edu), Department of Mathematics, Princeton University,
Princeton, NJ 08540-5410. Do norm minimizing surfaces remain norm minimizing after
filling? Preliminary report.

Suppose that S is a Thurston norm minimizing surface in $S^3 \setminus int(N(L))$, where L is an n-component link. Consider the manifold N obtained by filling several components of $\partial N(L)$ along slopes determined by S. Let T denote the natural extension of S to N. Is T norm minimizing if S is norm minimizing? We present positive and negative results and an interesting conjecture. (Received March 23, 2010)