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Some regularity properties of a soap film near the boundary.

We consider minimal and almost minimal sets of dimension 2 in 3-space (mostly), bounded by a smooth curve. The notion (sliding almost minimal sets) is defined in terms of deformation, as Almgren did for interior regularity, but it would apply in different contexts, such as Reifenberg homology minimal sets. We study the regularity of our set $E$ near a point of the boundary, depending on the tangent cones at this point. That is, we look for analogues of the Jean Taylor interior regularity theorem, but we only get a good description of $E$ for some cones. (Received January 27, 2019)