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A free boundary problem for a curve shortening flow with driving force

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Abstract：We study a free boundary problem associated with the curvature dependent motion of planar curves in some sectorial domain. In general, if the domain is sufficiently smooth (for example, continuously differentiable), then this kind of free boundary problem has a (weak) solution. However in our case, the domain has a corner and hence we cannot apply existing theory to our problem in order to construct and analyze a solution. In this talk, we focus on how to construct a solution and how the solution behave.

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