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**Hui Yu\*** ([huiyu@math.columbia.edu](mailto:huiyu@math.columbia.edu)). *On the multiple membranes problem: Regularity of solutions and classification of planar blow-up profiles.*

We study the equilibrium shape of multiple membranes under forcing. We show the optimal regularity of the solutions and classify possible blow-up profiles in the plane.

This is joint work with Ovidiu Savin (Columbia University). (Received January 27, 2018)