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Alexander Reznikov* (reznikov@math.fsu.edu), Tallahassee, FL 32309, and **Brian Simanek** and **Oleksandr Vlasiuk**. *Supports of solutions to the minimal log-energy problem with constraints*. Preliminary report.

If we look at a minimal log-energy problem on two non-intersecting curves, the support of the solution is well known. We discuss the problem when the solution is required to have prescribed masses on both curves. In particular, in this case, the support of the minimizing measure can have unexpected holes. (Received September 17, 2019)