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Ray Treinen*, Department of Mathematics, Texas State University, 601 University Drive, San Marcos, TX 78666. *On floating equilibria in a finite container.*

We consider the two dimensional problem of a circular object floating in a finite container under capillary effects. We organize and classify the possible equilibria according to variational conditions and give numerical support for a conjecture on existence and uniqueness. (Received September 15, 2014)