Analysis and Differential Geometry Seminar

Some variational considerations of immersion

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Abstract: Archimedes considered the effect of buoyancy when an object is immersed in a liquid bath. A theoretical framework has since been developed in which one can take account of capillary effects in this process, yet a precise geometric description of equilibrium configurations, their stability, and observational significance are all far from being completely understood in terms of the relevant parameters. In this talk we describe some aspects of the problem and consider some special cases which give some indications of what one can expect.

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Mathematics and Science Center: W301

Mathematics and Computer Science
Emory University