## 1147-49-671 Matias G Delgadino, Francesco Maggi, Cornelia Mihaila and Robin Neumayer\* (neumayer@ias.edu), 1 Einstein Dr., Princeton, NJ 08540. On minimizers and critical points for anisotropic isoperimetric problems.

Anisotropic surface energies are a natural generalization of the perimeter that arise in models for equilibrium shapes of crystals. We discuss some recent results for anisotropic isoperimetric problems concerning the strong quantitative stability of minimizers, bubbling phenomena for critical points, and a weak Alexandrov theorem for non-smooth anisotropies. Part of this talk is based on joint work with Delgadino, Maggi, and Mihaila. (Received January 28, 2019)