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Minimizing entire solutions to vector Allen-Cahn equations

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I will report on a joint work with Peter Sternberg and a very recent joint work with Lia Bronsard and Peter Sternberg, where we try to describe minimizing entire solutions to the vector Allen-Cahn equation with three wells in two space dimensions. It is known that the Gamma-limit by blow-down of this problem is a minimal partition problem with weights for which minimal cones are easily described. We will see that, depending on the weights, each minimal cone may, or may not, correspond to a minimizing entire solution.

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