## Asymptotic behavior and rigidity results for symmetric solutions of the elliptic system $\Delta u = W_u(u)$

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**Abstract.** We study symmetric vector minimizers of the Allen-Cahn energy  $J(u) = \int \left(\frac{1}{2}|\nabla u|^2 + W(u)\right) dx$  and establish various results concerning their structure and their asymptotic behavior in unbounded domains.

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