Bifurcation of coherent structures in nonlocally coupled system

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Outlines for multi-Dimensions

We consider

$$u + \mathcal{K} * u = \mathcal{N}(u; \mu) \tag{0.1}$$

with $u=u(x):\mathbb{R}^n\to\mathbb{R}^p,\,n<6,\,\mathrm{need}\ (\frac{n+2}{n-2}>2).$

Assumptions on matrix convolution operator K: radially symmetric, similar to 1-d case

- (i)
- (ii)