Concentrating solutions to critical competitive systems in low dimension.

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Abstract: We will analyze the existence and the structure of different sign-changing solutions to the Yamabe equation in the whole space and we will use them to find positive solutions to critical competitive systems in dimensions 3 and 4.

References:

[1] H. Chen, M. Medina, A. Pistoia. Segregated solutions for a critical elliptic system with a small interspecies repulsive force. Journal of Functional Analysis, Volume 284, Issue 10 (2023), 109882.