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Daisuke Naimen* (naimen@mmm.muroran-it.ac.jp). *Blow-up analysis for nodal radial solutions in Trudinger-Moser critical equations in \mathbb{R}^2 .*

We consider low energy nodal radial solutions of Trudinger-Moser critical equations in \mathbb{R}^2 . We study the asymptotic behavior of them as the growth rate of the nonlinearity goes to a threshold between the existence and nonexistence of nodal radial solutions. The solution exhibits a multiple concentration behavior together with a convergence to the least energy solution of a critical problem. We also observe that each concentration part, with an appropriate scaling, converges to a solution of the classical Liouville problem in \mathbb{R}^2 . This talk is based on a joint work with Massimo Grossi at Sapienza University of Rome. (Received February 09, 2018)