1083-35-203   **Masaharu Taniguchi*** (`masaharu.taniguchi@is.titech.ac.jp`), Dept of Mathematical and Computing Sciences, Tokyo Institute of Technology, 2-12-1-W8-38 Ookayama, Meguro-ku, Tokyo, 152-8552, Japan. *Multi-dimensional traveling fronts in bistable reaction-diffusion equations in $\mathbb{R}^N$.*

This paper studies traveling fronts of cylindrically non-symmetric shapes in bistable reaction-diffusion equations in $\mathbb{R}^N$ for $N \geq 3$.

Cylindrically symmetric traveling fronts have been studied by Hamel, Monneau and Roquejoffre (2005, 2006). For $N = 3$ cylindrically non-symmetric traveling fronts are studied by myself (2012).

For $N \geq 3$ we construct cylindrically non-symmetric traveling fronts for any given $g \in C^2(S^{N-1})$. (Received August 28, 2012)