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Anar Akhmedov, Mohan Bhupal and Nur Saglam*, nur77@vt.edu. *Constructions of Lefschetz fibrations using cyclic group actions.*

We construct families of Lefschetz fibrations over \mathbb{S}^2 using finite order cyclic group actions on the product manifolds $\Sigma_g \times \Sigma_g$ for $g > 0$. In some cases, we obtain singular fibers which we can apply rational blow-down operation. (Received January 16, 2020)