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Jahmario Williams*, 110 Lincoln Green Apt 318, Starkville, MS 39759, and **Hai Dang**, 410 Allen Hall 175 President's Circle, Mississippi. *Positive radial solutions for a class of singular p -Laplacian system in a ball.*

We prove the existence and nonexistence of positive radial solutions for the system

$$\begin{cases} -\Delta_p u_1 = h_1(u_2) + \mu_1 f_1(u_2) & \text{in } B, \\ -\Delta_p u_2 = h_2(u_1) + \mu_2 f_2(u_1) & \text{in } B, \\ u_1 = u_2 = 0 & \text{on } \partial B. \end{cases}$$

where $\Delta_p z := \operatorname{div}(|\nabla z|^{p-2} \nabla z)$, $p > 1$, B is the open unit ball in \mathbb{R}^n , $h_i, f_i : (0, \infty) \rightarrow \mathbb{R}$ with f_i asymptotically p -linear at ∞ , and μ_i are positive constants, $i = 1, 2$. (Received September 12, 2012)