Sridevi Pudipeddi* (sp0072@unt.edu), 1518 W.Hickory St. # C, Deton, TX 76201. Radial solutions for $\Delta_p u + f(u) = 0$, with $\lim_{|x| \to \infty} u(x) = 0$. Preliminary report.

We examine the radial solutions of $\Delta_p u + f(u) = 0$, with $\lim_{|x| \to \infty} u(x) = 0$, for functions f(u) which behave like $|u|^{q-1}u - u$, where 1 and <math>p < N. We show that for each nonnegative integer n, there is a solution u which has exactly n zeros. (Received September 11, 2006)