

On radial and non-entire solutions

by Philip W. Schaefer  
(University of Tennessee, USA)

Many results have appeared in the literature for equations of the form

$$\Delta_p u = f(u), p \geq 1,$$

in particular for  $f(u) = e^u$ .

We obtain some explicit radial solutions which are not entire as a consequence of a differential inequality. A nonlinear Dirichlet problem is also considered.