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Jose A Franco*, Department of Mathematics & Statistics, University of North Florida, 1 UNF Dr., Jacksonville, FL 32224. *Global Actions of the Symmetry Group of the n -dimensional Porous Medium Equation.*

The actions of the symmetry group of the n -dimensional porous medium equation

$$u_t = \Delta_n(u^m)$$

are globalized on a special class of functions. The globalization is attained by using parabolic induction on the group $G = SL(2, R) \times SO(1, n + 1)_0$ where the 0 sub-index denotes the connected component. (Received September 15, 2014)