1016-46-198   **Leonard Gross*** (`gross@math.cornell.edu`), Department of Mathematics, Cornell University, Ithaca, NY 14853. *A real analytic infinite dimensional manifold for a problem in critical nonlinearity.* Preliminary report.

An ambient space for the solutions to a particular nonlinear PDE with critical nonlinearity is shown to be a real analytic manifold. (Received February 12, 2006)