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Aaron A Reite* (areite@csufresno.edu), Department of Mathematics, 5245 North Backer Avenue M/S PB108, Fresno, CA 93740-8001. *Fixed points on model solvmanifold pairs.*

We examine the relative Nielsen theory of model solvmanifold pairs and their diagonal type selfmaps. We present an explicit formula for computing the relative Nielsen number $N(F; X, A)$ on these spaces and selfmaps $F : (X, A) \rightarrow (X, A)$. Surprisingly, we find that model solvmanifold pairs often exhibit interesting relative Nielsen theory, meaning $\max N(F), N(F|_A) < N(F; X, A) < N(F) + N(F|_A)$. (Received September 22, 2006)