Matija Cencelj, Ljubljana, Slovenia

Keywords: smooth free loop space, differentiable slice
AMS Subject classification: 58D19

Abstract: Let M be an orientable smooth manifold without boundary. We prove that the differentiable slice theorem for the natural S^1-action on the smooth free loop space $C^\infty(S^1, M)$ holds. Poincaré lemma for basic differential forms on $C^\infty(S^1, M)$ is proved.