31. Zvi Artstein and Marshall Slemrod, **Trajectories joining critical points.** J. Differential Equations 44 (1982), 40-62.

Abstract. The paper examines the existence of trajectories joining a pair of critical points, or more generally, a pair of compact invariant sets, of abstract dynamical systems. Concretre applications and examples among both finite and infinite dimensional differential equations are presented. The technique follows two stages, First ε-connecting orbits, namely, orbits which connect in finite time the ϵ-neighborhoods of the critical sets, are examined. Then, under natural conditions, a l imit produces the desired connecting orbit.

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