1020-47-160Neeta Singh* (n_s32132@yahoo.com), Department of Mathematics, University of Allahabad,
Allahabad, 21100, India. On Fixed and Coincidence Points for Fibre-preserving maps.

In 1981, Fadell and Husseini [2] employed classical obstruction theory to study the problem as to when fibre — preserving maps deform into fixed point free maps. Recently Dold and Goncalves [1] have given interesting results on self-coincidences of fibre maps.

In this paper we give conditions under which fibre preserving maps can be deformed into fixed point free and coincidence point free maps. When the fibre is a circle, the criterion can be given in terms of the fundamental group.

We also show that the obstruction class is nonzero if the obstruction class for the maps in the corresponding covering space is nonzero. We get known results as corollaries.

- 1. A.Dold and D.L.Goncalves, Self-coincidences of fibre maps, Osaka J. of Math. 42 (2005) 291-307.
- 2. E.Fadell and S.Husseini, Fixed point theory for non-simply connected manifolds, Topology 20 (1981) 53-92.

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