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Freely Indecomposable Groups in Wild Topology

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It is proved that groups with a certain property, termed by us τ -Higman complete cannot split as free product. From this somewhat technical result a number of facts like free indecomposability of inverse limits of groups and non discrete locally compact groups follow quickly. Using our device, another proof of a result of K. Eda concerning mapping an inverse limit of groups to the topologist's product of groups is given. A further outcome is a different proof of a result by K. Slutsky on non splitting as a free product of nondiscrete Polish groups. Remarkably, our approach is not sensitive to involutions present.