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Left Adjoint of Pullback Cat^1- profinite groups

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Abstract: In this paper, we present a brief review crossed modules \cite{whitehead}, cat^1-groups \cite{loday}, profinite crossed modules \cite{kortim}, cat^1-profinite groups \cite{kortim}, pullback profinite crossed modules \cite{kortim} and also the pullback cat^1- profinite groups \cite{hind}. We prove that the pulback cat^1-profinite group has a left adjoint which is the induced cat^1-group.

Key Words: Crossed modules, Cat^1-groups, pullback, Profinite groups, Left, Right Adjoint, Cocomplete category.