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Left Adjoint of Pullback Cat^1 -Groups

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Abstract: In [1] we define the pullback Cat^1-groups and showed that the category of pullback Cat^1-groups is equivalent to the category of pullback crossed modules. In this paper we proved that the pullback Cat^1-group has a left adjoint which is the induced Cat^1-group. We also give the left adjoint construction.

Key Words: Crossed modules, cat^1-groups, pullback, Cocomplete category, Adjoint.