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Affine Extensions of Principal Additive Bundles over a Punctured Surface

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The aim of this article is to make a first step towards the classification of complex normal affine G_a -threefolds X . We consider the case where the restriction of the quotient morphism $\pi: X \rightarrow S$ to $\pi^{-1}(S^*)$, where S^* denotes the complement of some regular closed point in S , is a principal G_a -bundle. The variety SL_2 will be of special interest and a source of many examples. It has a natural right G_a -action such that the quotient morphism $SL_2 \rightarrow A^2$ restricts to a principal G_a -bundle over the punctured plane $A^{2,*}$.

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