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authors	Arielle Leitner				
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	his paper uses work of Haettel to classify all subgroups of P GL 4 (R) isomorphic to (R 3, +), up to conjugacy. We use this to show there are 4 families generalized cusps up to projective equivalence in dimension 3. There are 15 conjugacy classes of subgroups in P GL 4 (R) isomorphic to (R 3, +), see theorem 1.1 for the precise list. Classification of abelian subalgebras of sl(n, R) has long been of interest and closely related problems have been studied	doi			ì
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	in [7], [9], [13], and [14]. The remainder of the paper applies this result to classify generalized cusps in convex projective manifolds of dimension 5 3.	id	id4859770332459554518		
abstract	Suppose M is a manifold of dimension greater than 2. By Mostow-Prasad rigidity, a finite volume hyperbolic structure on M is unique up to isometry. The notion of a hyperbolic structure on a manifold may be generalized to a properly convex projective structure as follows. A convex set with nonempty interior 10 Ω âŠ, RP n is properly convex if the closure is disjoint from some projective hyperplane. A properly convex manifold is M = Ω/Î" where Î" âŠ, P GL n+1 (R) is discrete and acts freely on Ω. If n = 3 such an M is a generalized cusp if M is diffeomorphic to T 2 × [0, â'ž) and â^, M is strictly convex (contains no line segment). 15 In the case of convex projective structures, there is no notion of Mostow rigidity, so there is a richer deformation theory. When M is closed, Koszul [10], shows that small deformations in the holonomy of hyperbolic structures yield properly convex projective structures. When M is not compact, Koszul's result no longer holds. Cooper, Long and Tillmann [3], have shown Koszul's result 20	abstract	This paper uses work of Haettel to classify all subgroups of PGL(4,R) isomorphic to (R ³ , +), up to conjugacy. We use this to show there are 4 families of generalized cusps up to projective equivalence in dimension 3.		
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