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Gabriela P. Ovando
Mauro Subils</td></tr>
<tr><th>title</th><td>Solvable models for Kodaira surfaces</td></tr>
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<tr><th>abstract</th><td>We consider three families of lattices on the oscillator group G, which is an almost nilpotent not completely solvable Lie group, giving rise to coverings $G \to M_{k, 0} \to M_{k, \pi} \to M_{k, \pi/2}$ for $k\in \Z$. We show that the corresponding families of four dimensional solvmanifolds are not pairwise diffeomorphic and we compute their cohomology and minimal models. In particular, each manifold $M_{k, 0}$ is diffeomorphic to a Kodaira--Thurston manifold, i.e. a compact quotient $S^1 \times \Heis_3 (\R) /\Gamma_k$ where Γ_k is a lattice of the real three-dimensional Heisenberg group $\Heis_3 (\R)$. We summarize some geometric aspects of those compact spaces. In particular, we note that any $M_{k, 0}$ provides an example of a solvmanifold whose cohomology does not depend on the Lie algebra only and which admits many symplectic structures that are invariant by the group $\R \times\Heis_3 (\R)$ but not under the oscillator group G.</td></tr>
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<tr><th>abstract</th><td>We consider three families of lattices on the oscillator group G, which is an almost nilpotent not completely solvable Lie group, giving rise to coverings G â†’ M_k, 0â†’ M_k, Ï€â†’ M_k, Ï€/2 for kâˆ. We show that the corresponding families of four dimensional solvmanifolds are not pairwise diffeomorphic and we compute their cohomology and minimal models. In particular, each manifold M_k, 0 is diffeomorphic to a Kodaira--Thurston manifold, i.e. a compact quotient S^1 Ã—_3 () /Î“_k where Î“_k is a lattice of the real three-dimensional Heisenberg group _3 (). We summarize some geometric aspects of those compact spaces. In particular, we note that any M_k, 0 provides an example of a solvmanifold whose cohomology does not depend on the Lie algebra only and which admits many symplectic structures that are invariant by the group Ã—_3 () but not under the oscillator group G.</td></tr>
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