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**When the deformation space  $\mathcal{T}(\Gamma, H_{2n+1}, H)$  is a manifold**

**Abstract.** Let  $H_{2n+1}$  be the  $2n+1$ -dimensional Heisenberg group and  $H$  a connected Lie subgroup of  $G$ . Given any discontinuous subgroup for  $G/H$ , we know a precise layering into open sets of the resulting deformation space  $\mathcal{T}(\Gamma, H_{2n+1}, H)$ . We study in this talk when this space is endowed with a smooth manifold structure. (Joint work with Ali Baklouti and Khaled Tounsi)