

Complex hyperbolic lattices
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Abstract: Lattices in $SU(2,1)$ can be viewed in several different ways: via their geometry as holomorphic complex hyperbolic isometries, as monodromy groups of hypergeometric functions, via algebraic geometry as ball quotients and (sometimes) using arithmeticity. In this talk I will describe these different points of view using examples constructed by Deligne and Mostow and by Deraux, Paupert and myself.