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CFT and Hermitian Symmetric Superspaces

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Replacing the regular Lie groups in the coset construction of Goddard-Kent-Olive (GKO) with Lie supergroups yields conformal but non-unitary 2-dimensional QFTs. We extend previous studies of exactly marginal deformations in such superspace coset models to hermitian symmetric superspaces. In this case we obtain several families of $N=2$ superconformal field theories with continuously varying exponents.

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