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Simple modules of the L^1 group algebra of $SL_2(\mathbb{R})$

Abstract. We determine the simple modules of the algebra $L^1(SL_2(\mathbb{R}))$ up to equivalence and we show that these modules are the finite rank submodules of the L^p -principal series and of the discrete series representations of $SL_2(\mathbb{R})$. This is a joint work with A. PASQUALE.