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Transfering unitary representations from PSL(2,R) to PSL(2,Q_p) - an operator algebra approach.

Abstract. We use an operator algebra approach in transfering unitary representations in the discrete series of PSL(2,R) to PSL(2,Q_p). This is related to finite Muray von Neumann dimension of the von Neumann algebra obtained by restriction to PSL(2,Z). In the case of infinite dimension, we construct a "double representation" (by left and right multiplication operators) that we relate some operator algebras cohomology groups.