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Mapping class group representations in the Hilbert space of square integrable functions over locally compact abelian groups

Let S be an oriented punctured surface of finite type of negative Euler characteristic. By using the combinatorics of ideal triangulations of S and the notion of a quantum dilogarithm over a self-dual locally compact abelian group A, I will describe a construction of a unitary projective representation of the mapping class group of S in the Hilbert space of square integrable functions over A.