

Submission for an invited session, organized by Ana Cristina Casimiro
& Paula Pascoal-Faria

Representations of Higman-Thompson groups from Cuntz algebras

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Every representation of the Cuntz algebra O_n leads to a unitary representation of the Higman-Thompson group V_n . We consider the family $\{\rho_x\}_{x \in [0, 1[}$ of permutative representations of O_n that arise from the interval map $f(x) = nx(\text{mod } 1)$ acting on the Hilbert space that underlies each orbit, and then study the unitary equivalence and the irreducibility of the corresponding family $\{\rho_x\}_{x \in [0, 1[}$ of representations of Higman-Thompson group V_n , showing that these representations are indeed irreducible and moreover x and y are equivalent if and only if the orbits of x and y coincide.