1019-46-138 **Remus Floricel*** (`floricel@math.uregina.ca`), Department of Mathematics, University of Regina, Regina, Canada. *On pure E_0-semigroups.* Preliminary report.

It is well-known that ergodic unital *-endomorphisms acting on a factor of type I_∞ correspond to essential irreducible representations of Cuntz algebras, and that shift-type unital *-endomorphisms correspond to certain irreducible representations of UHF algebras. More generally, it was shown by W. Arveson that continuous semigroups of unital *-endomorphisms correspond to essential irreducible representations of a continuous analogue of the Cuntz algebras, the spectral C^*-algebra. Our purpose in this talk is to discuss a correspondence between pure E_0-semigroups and certain irreducible representations of a continuous analogue of UHF algebras. (Received August 12, 2006)