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**Edwin J Beggs\*** (E.J.Beggs@swansea.ac.uk), Dept of Mathematics, Swansea University,  
Swansea, SA2 8PP, Wales. *Asymptotic morphisms on separable metrisable algebras.*

Asymptotic morphisms on  $C^*$  algebras and their compositions were introduced by Connes and Higson. I shall give a definition of asymptotic morphisms on separable metrisable algebras, show how they compose, and give some examples. I will then discuss how, in star algebras, they induce maps between the quasi-unitary groups of the algebras, provided that the algebras support a certain amount of functional calculus. This links the asymptotic morphisms directly to Thomsen's non-stable definition of  $k$ -theory in the  $C^*$  algebra case. (Received September 19, 2007)