

1086-46-2186 **Ami Viselter*** (viselter@ualberta.ca). *Locally compact quantum groups and amenability.*

We will begin by introducing the Kustermans-Vaes definition of locally compact quantum groups (LCQGs). Then, after reviewing the definition of amenability for locally compact groups, we will present its generalization(s) to LCQGs, and relate several problems of current research connected with these notions. (Received September 25, 2012)