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Huaxin Lin* (hlin@uoregon.edu), Department of Mathematics, University of Oregon, Eugene, OR 97402. *The Basic Homotopy Lemma and locally AH-algebras.*

We will discuss some background of the Basic Homotopy Lemma. In particular a version for approximately commuting unitaries. Several versions of the Basic Homotopy Lemma will be presented. We will also discuss new applications in the study of locally AH-algebras. (Received December 12, 2011)