Pure Mathematics Seminar

The joint subnormality of commuting pairs

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The Lifting Problem for Commuting Subnormals (LPCS) asks for necessary and sucient conditions for a pair of commuting subnormal operators on a Hilbert space to admit commuting normal extensions. This is an old problem in operator theory. In this talk we answer a long-standing open problem about the LPCS (due to A. Lubin): The subnormality for the sum of commuting subnormal operators does not guarantee the existence of commuting normal extensions. For this, we introduce a new class of 2-variable weighted shifts and employ disintegration-of-measure techniques.

Date: **Friday, November 13, 2015**
Time: **11:00 am**
Place: **Edinburg:** MAGC 1.302, **Brownsville:** UBLB 3.102

The talk will delivered live at the Edinburg campus and will be streamed to the Brownsville campus

Coffee and cookies will be served.

For further information or for special accommodations, please contact Dr. Sergey Grigorian via email at [`sergey.grigorian@utrgv.edu`], or Dr. Alexey Garber at [`alexey.garber@utrgv.edu`], or visit the webpage [`http://blue.utb.edu/dg2012/puremathseminar.html`].