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Exploration of a Mathematics Enrichment Summer Camp for Underrepresented High School Students.

This session will introduce a successful framework for the development and advancement of the Tensor SUMMA-funded Lamar Achievement in Mathematics Program (LAMP) at Lamar University. LAMP, a 2009 first year initiative at Lamar University, is a free summer mathematics camp for underrepresented and/or economically disadvantaged mathematically talented Southeast Texas high school students interested in exploring mathematics as a college major or career option. The mission of the initiative is to expose mathematically gifted students to the beauty and variety of mathematics that extends beyond the typical high school curriculum and encourage them to consider postsecondary study and careers in mathematics.

Details of the three week summer LAMP experience include LAMP Scholars' engagement in numerous instructional and exciting activities, focusing on the exploration of interdisciplinary areas of mathematics in 6 different mathematics courses (Game Theory, Discrete Mathematics, Problem Solving, Magic of Mathematics, Geometry, and Number Sense). Scholars also participate in weekly field trips, work collaboratively to compile a video for the annual Math Awareness competition, and interact with professionals from various science, technology, engineering, and mathematics disciplines. (Received September 22, 2009)