

Department of Mathematical Sciences Colloquium

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On the Geometry of Associativity

A geometrical characterization of residuated semigroups is presented in this talk based on the notions of the rotation-invariance property, and the pseudo-inverse of monotone functions. This provides a deeper understanding of associativity via geometrical insight. Then it is demonstrated how the intuition, which is gained from the geometrical description may help in obtaining results in the fields of algebra, logic and functional equations.

**Friday, November 3, 2006 at 3 pm in Bell Hall 143
The University of Texas at El Paso**

Refreshments will be served in front of the colloquium room, 15 minutes before the start of the colloquium.

For further information, please contact Dr. Pavel Šolín, Bell Hall 220. Phone: (915) 747-6770, email: solin@utep.edu.