



FMSP Lectures

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Horospheres: geometry and analysis

Lecture (I) December 4 (Wednesday) 15:00 ~ 16:30 Room 128

Lecture (II) December 6 (Friday) 16:30 ~ 18:00 Room 118

Abstract:

About 50 years ago Gelfand suggested a conception of horospherical transform which, he hoped, must be an universal principle unifying non commutative harmonic analysis. I want to make several historic remarks (especially, since this year is the centennial anniversary of Gelfand). I want to discuss the evolution of this fundamental conception for 50 years and how Gelfand's dreams are looked today. I will discuss an elementary case of hyperboloids of any signature where there were not too much progress after old initial result of Gelfand-Graev.