



AMERICAN UNIVERSITY
WASHINGTON, D C

THE DEPARTMENT OF MATHEMATICS AND STATISTICS COLLOQUIUM

Analytic Bezout Equations, Sampling, and the Strongly Coprime Condition

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Ward 105

Abstract: Solutions to analytic Bezout equations associated with certain multichannel deconvolution problems rest upon the strongly coprime condition. We first describe this condition, and show that it is a natural setting in which to solve deconvolution problems. Our solutions are developed via interpolation on unions of non-commensurate lattices. They provide insight into how one can develop general sampling schemes on properly chosen non-commensurate lattices. We will give specific examples of these types of lattices, and use a generalization of B. Ya. Levin's sine-type functions to develop interpolating formulae.

Presented by
THE AU MATH/STAT DEPARTMENT AND THE AU CHAPTER OF SIGMA XI
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Next Colloquium:

Tuesday, April 22, 2003 Ward 105

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