Ron Douglas

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Will present the Twenty-Fifth
Friends of Mathematics Lecture

Title of Talk:

"Operator Theory and Complex Geometry"

Thursday, April 26, 2007
2:30 PM
1014 Throckmorton Hall
Kansas State University
Manhattan, Kansas

All are invited

The study of bounded linear operators can be related to complex function theory and commutative algebra, especially when one considers n-tuples or algebras of operators. In this latter multi-operator case, the function theory involves several variables, as does the algebra.

In this talk, I'll describe how this perspective can be used to study the multivariate case and involves an extension of concepts from algebraic geometry and complex geometry. However, I will focus on examples in the single operator case related to classical Hilbert spaces of holomorphic functions to illustrate this point.

Ron Douglas, March 24, 2007