

CCSU
DEPARTMENT OF MATHEMATICAL SCIENCES
COLLOQUIUM

Friday, March 18
2:00 – 3:00 PM
Maria Sanford, Room 101

**COMMUTATIVITY IN A FREE
ASSOCIATIVE ALGEBRA**

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Abstract: A free associative algebra can be viewed in different ways. Its elements can be thought of as tensors, as linear combinations of words in a fixed alphabet or as non-commutative polynomials. In a free associative algebra the following defect theorem for two elements holds: Either two elements freely generate a subalgebra, or they lie in a subalgebra generated by a single polynomial. The talk will be an exposition of the work of George M. Bergman and Paul Cohn on this topic.

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