

# Commutative Ring Theory Days 2010

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## ABSTRACT IDEAL THEORY, IDEAL SYSTEMS, AND SEMISTAR OPERATIONS

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We show that a generalization of quantales and prequantales provides a noncommutative and nonassociative abstract ideal theoretic setting for the theories of star operations, semistar operations, semiprime operations, ideal systems, and module systems, and conversely the latter theories motivate new results on quantales and prequantales.

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