New Developments in the Theory of Modular Forms Over Function Fields

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The theory of modular forms goes back to the 19th century, and has since become one of the cornerstones of modern number theory. Historically, modular forms were first defined and studied over the complex numbers, but in the 1960s, with the formulation of the Langlands program, it became apparent that the development of a theory of modular forms over function fields will also have major arithmetic applications. A tremendous breakthrough in this direction came with the work of Drinfeld, who in the 1970s, in an attempt to prove the Langlands conjecture over function fields, introduced what are now called Drinfeld moduli spaces. The purpose of the conference will be to bring together mathematicians working on function field arithmetic, and to discuss the latest developments in the theory of automorphic and Drinfeld modular forms, and to explore possible new directions of research.

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