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Gautam Chinta* (chinta@math.brown.edu), Math. Institut, Georg-August-Universitt,
Georg-August-Universitt, Bunsenstr 3-5, 37073 Gttingen, Germany. *Multiple Dirichlet series over
function fields.*

We will discuss sums of L -functions and sums of Gauss sums defined over the rational function field. We will also describe relations between these multiple Dirichlet series and Fourier coefficients of the theta function on the n fold cover of GL_2 . (Received September 27, 2005)