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Values of certain L-series in positive characteristic

Federico Pellarin (LAMUSE)

(Submitted on 22 Jul 2011 (v1), last revised 3 Oct 2011 (this version, v4))

We introduce a family of L-series specialising to both L-series associated to certain Dirichlet characters over F_q[T] and to integral values of Carlitz-Goss zeta function associated to F_q[T]. We prove, with the use of the theory of deformations of vectorial modular forms, a formula for their value at 1, as well as some arithmetic properties of other values at positive integers

Subjects: **Number Theory (math.NT)**

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