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Harmonic analysis and the Riemann-Roch theorem

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(Submitted on 2 Jul 2011 (v1), last revised 21 Oct 2011 (this version, v2))

This paper is a continuation of papers: arXiv:0707.1766 [math.AG] and arXiv:0912.1577 [math.AG]. Using the two-dimensional Poisson formulas from these papers and two-dimensional adelic theory we obtain the Riemann-Roch formula on a projective smooth algebraic surface over a finite field.

Comments:	7 pages; to appear in Doklady Mathematics
Subjects:	**Algebraic Geometry (math.AG)**; Number Theory (math.NT)
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