

# Notes on the Poisson formula

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These notes are a part of my lectures on representations of adelic groups attached to two-dimensional schemes. They contain a study of the one-dimensional case as a preliminary step to the case of dimension two. We consider the following issues: the Tate-Iwasawa method for algebraic curves; a discrete version and holomorphic duality; the Poisson formula and residues; explicit formulas; relation with the Artin representation; analogues for the number fields. With appendix on the Dedekind zeta-functions by Irina Rezvjakova.

Comments: 46 pages, submitted to the Saint-Petersburg mathematical Journal

Subjects: **Number Theory (math.NT)**; Algebraic Geometry (math.AG); Representation Theory (math.RT)

MSC classes: 11G, 11S, 14G, 14K,

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