



Mathematics > Algebraic Geometry

Constructing higher dimensional local fields

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This note is a gentle introduction to higher dimensional local fields, with the motivating problem being the standard geometric "localisation-completion" process by which they can be constructed. A direct proof of the behaviour of this construction, which is the simplest part of the theory of higher dimensional adeles, will hopefully be useful to both specialists and newcomers.

Subjects: **Algebraic Geometry (math.AG)**; Commutative Algebra (math.AC); Number Theory (math.NT)

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