

Idèles and ideals

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This talk will introduce the space of idèles for a global field K . For convenience, the construction given in the talk will use the rational numbers. In the process, completions, additive/multiplicative valuations, and connections to ideals will be discussed. If time permits, we will generalize to an arbitrary Galois number field, ultimately ending with some Galois-theoretic properties of the idèles.