Eine Woche, ein Beispiel 6.27 adèles and idèles

I would recommend this paper: https://people.math.umass.edu/~weston/oldpapers/idele.pdf.

After reading it, you may learn:

- The definition of two topology space adèles and idèles
- Basic properties of them (subspaces, canonical map...)
- Use this to prove the finiteness of the ideal class group and the generalized Dirichlet unit theorem

Slogen: A good ambient space can make researched objects into full lattice! objects ambient space K: number field $\mathbb{R}^{r_1} \times \mathbb{C}^{r_2}$ $\mathbb{R}^{r_1} \times \mathbb{C}^{r_2} \times \mathbb{C}^{r_2} \times \mathbb{C}^{r_2}$ $\mathbb{R}^{r_1} \times \mathbb{C}^{r_2} \times \mathbb{C}^{$

stronger

discrete

box

idèles Jk ? restricted direct product topology

product

trivial

Tris not continuous

Complex topo

Zaviski topo

trivial to

 $From \ [https://math.stackex.change.com/questions/2869928/definition-of-the-weil-group-question-about-exact-sequence-with-inertia-group-a] \ and \ an arrange of the properties of the propert$: A caveat is that the topology on the Weil group is not the subspace topology, but finer than the subspace topology. We require that (the image of) the inertia group be open.