

Exercise sheet 4.

March 24th

Due March 31st in class.

Exercise 13. Prove Lemma 5.2, and furthermore that \mathcal{O}_F^\times acts simply transitively on the set of such ψ_F .

Exercise 14. Let $f \in \mathcal{C}_c^\infty(V)$. Show that with respect to ν and ν^\perp we have $\hat{f}(X) = f(-X)$. In particular $(\mu \mapsto \hat{\mu})$ or $(f \mapsto \hat{f})$ is an isomorphism of vector spaces.