Global Hecke Algebras $G_{\nu} = GL_{z}(k_{\nu})$ Thursday, 15 April 2021 10:38 AM $C = CL_2 \quad K_v = CL_2(O_v)$ $| \mathcal{L} = \begin{cases} \{ : G_v \longrightarrow \mathcal{L} | \text{ locally constant } 2 \text{ non-arch.} \\ \text{Compact support} \}, \text{ non-arch.} \\ \text{U(Y)} \longrightarrow \text{Complex} \\ \text{U(Y)} \oplus \text{U(Y)} * \mathcal{E}_-, \text{ real.}$ E_ = dirac measure at (o') in Gr. H(A) = 0'H, r.t.p w.r.t. 1/K, Let β be an admissible irreducible unitary representation of G(A) on $H = \bigotimes B_V$ $G(G(A) \setminus G(A) \setminus G(A)$ Let θ be an irred repn. of K. Then $\theta = \otimes \theta v$ with θv irred repn. of Kv $\theta v = id$ for almost all vBy (Ov) = the isotypic component of Pulk, corresponding to Ov $\forall v$, f, defines an irred, admiss. reprint g and g are g are g and g are g and g are g are g and g are g are g and g are g and g are g and g are g are g and g are g and g are g and g are g and g are g are g and g are g and g are g

nuts seminar Page 1

 $BJ = \bigoplus_{\theta \in \hat{K}} B_{\nu}(\theta_{\nu})$ We have Kr = set of equiv. classes of irreducible representation of kr We get an irreducible representation $\pi = g^{\prime}$, $g \rightarrow f(A)$ on $V = \otimes B^{\prime}$ $V \simeq \beta^{f}$ on the siegel domain. This given by $\pi(M) \psi = \psi * M$. $\pi = \otimes f_v$ $\mu \in \mathcal{H}(A), \quad \psi \in V = \mathcal{B}^{\sharp}$ $\mu(x) = \mu(x^{-1})$ Conclusion Civen topologically irreducible subrepresentation p of the anibary repriced LA (CIR) (LIR), w) we get an algebraically irreducible representation to of H(A) on a space of cusp forms of CIR) (CIA).