Appendix.

A a Grotherdicet Topology on & K-Aff is to assign each X & K-Aff a to Gi-topology, est. for Z >X a morphism,

4 is continuous. the double by Tx/T.

Dd. Lot X ∈ l \(\frac{k-Aff}{k}\), U \(\times \), an arbitrary covering \(\frac{k}{k} \) \(\times \) \(\times \) is called compatible if for any $Y \xrightarrow{\varphi} X$, and any TY - open V = Y,

st. $\psi(v) \leq U$, the covering $\{\psi(u) \rightarrow v\}$ adout a refinement by Ty-covering. (This is how weak -> strong)

Thu. For a G-topology Ton K-Aff, Define a topology T':

① is open if it admits a cover {ui→u}, which is compatible USX

② [y→v] a covering of T'-open is admissible if (vj→v) is congatible with T.

then T is the unique finest top among all the G-top. slightly finer than T.

T' satisfies (G1)-(G2) and (G0) of T satisfies (G0).

Cor. Ubak Gi-topology w> strong Gi-topology strong Gi-topology sotisfy (Gio) - (Giz) (Prop 5.2/5) Lemma . (1) If U, V are subsets of XET, If (U: -U) is on and compatible nith T, then [VNVi -> VNV] to compatible with T.

(ii) [Vi > v] is compatible, {vij] - vi} is compatible, then [vij > v3 is compatible.

Proof of (Gi) T for weak, T' for strong.

 $V\subseteq U$, $U\subseteq X$ admissible open, $\exists (Ui \rightarrow U)$ admissible, st. $V\cap Ui$ is open in X, then V is admissible open.

We need to construct a 7-open conving of V compatible with T.

(Ui→U) congatible ⇒ {Uinv→v} is compatible.

Non choose that {\vij \rightarrow \uninv) a covering making \uninv \uninv \rightarrow - \text{open} Then {Vij > v} is compatible with T and Vij are T-open. []