

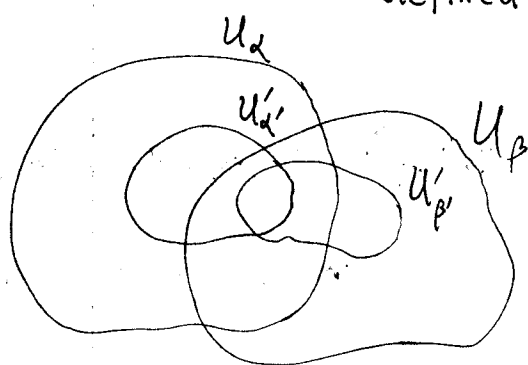
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$$\underline{U}' = \{U_{\beta'} \mid \beta' \in I'\} \subset \underline{U} = \{U_{\alpha} \mid \alpha \in I\} \Rightarrow \text{let } \varphi: I' \rightarrow I \\ \alpha' \mapsto \alpha.$$

$$H'(\underline{U}, \mathcal{O}^*) \xrightarrow{\varphi^*} H(\underline{U}', \mathcal{O}^*) \text{ is injective.}$$

$$[g] = [(g_{\alpha\beta})] \longmapsto [g'] = [(g'_{\alpha'\beta'})]$$

defined by $g'_{\alpha'\beta'} = g_{\alpha\beta} |_{U_{\alpha'} \cap U_{\beta'}}$



$$\Rightarrow g'_{\beta'\alpha'} g'_{\alpha'\beta} = 1$$

On $U_{\alpha'} \cap U_{\beta'} \cap U_{\alpha'} \neq \emptyset$

$$g'_{\beta'\alpha'} = g_{\alpha\beta} |_{U_{\alpha'} \cap U_{\beta'}} \quad g'_{\alpha'\beta} = g_{\beta\alpha} |_{U_{\alpha'} \cap U_{\beta'}}$$

$$g'_{\alpha'\beta} = g_{\beta\alpha} |_{U_{\alpha'} \cap U_{\beta'}}$$

$$\Rightarrow g'_{\alpha'\beta} g'_{\beta'\alpha'} g'_{\alpha'\beta} = 1$$

Note: If $U_{\alpha'} \subset U_{\alpha}$ and $U_{\beta'} \subset U_{\alpha}$,
then

$$g'_{\alpha'\beta'} = g_{\alpha\alpha} |_{U_{\alpha'} \cap U_{\beta'}} = 1 \quad \text{since } g_{\alpha\alpha} = 1 \text{ by convention}$$

and $g_{\alpha\alpha} = 0$ when considered additive group.