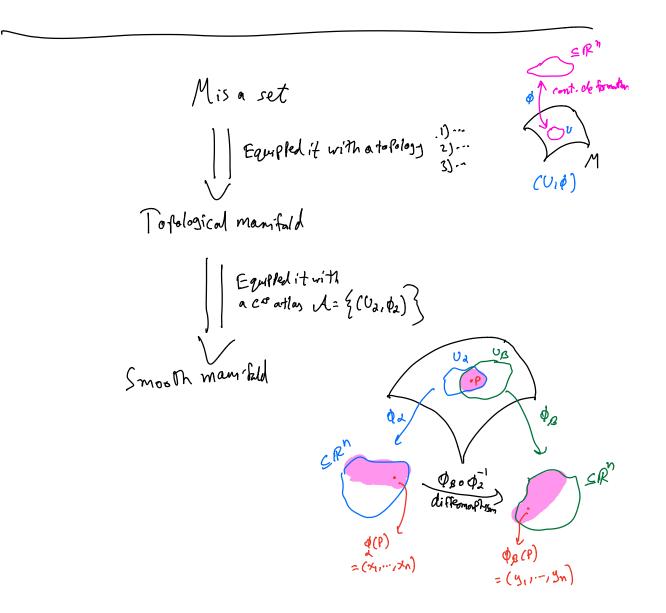
-Tatorials



Question: Given a smooth manifold
$$M$$
 with a C^{*} atlas A ,
is There a different C^{*} adlas A' that makes M the
same smooth manifold? or makes M a different smooth
manifold? (Can A' give M the same (or a different) smooth
structure)
 $\begin{pmatrix} C^{*}(N) = C^{*}(M) \\ A' \end{pmatrix}$

Def: A chart $(U_1\phi)$ is C^{∞} compatible with an atlay \mathcal{A} if $(U_1\phi)$ is C^{∞} compatible with every chart in \mathcal{A} .