(b)
$$ds^2 = a^2(t) \left[dX^2 + r^2(X) \left(d\theta^2 + sin^2\theta d\theta^2 \right) \right] - c^2 dt^2$$
 $r = \chi$: $\epsilon = 0$
 $r = sin \chi$: $\epsilon = \Lambda$
 $r = sin h \chi$: $\epsilon = \Lambda$
 $\chi = const$, $t = \xi = const$, $M = a(t)$
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=> O+ La because we do not observe the other cases