

then there exists a $P_0^c > 0$ such that

$\forall p_0 \in (0, P_0^c)$: the g_{mn} associated with g, p_0, q_0
are a frame

$\forall \delta > 0: \exists p_0$ in $[P_0^c, P_0^c + \delta]$ such that the g_{mn}
associated to g, p_0, q_0 are not a frame.