## Abstract

In this thesis we have found new class of bound entangled state that are key distillable. We have shown that in certain cases Itration operation which has a mapping  $!_{LLyTrLL y} = 0$  increases the lower bound K<sub>DWD</sub> of key ditillation value. The di erence between the values of K<sub>DWD</sub> before and after the Itration protocol can be seen in gure 4:3. We have de ned certain condition that were proposed in ([1]) and showed that even after violation of these condition, we can prove key distillability of bound entangled state using Itration operation.