

Figure 1

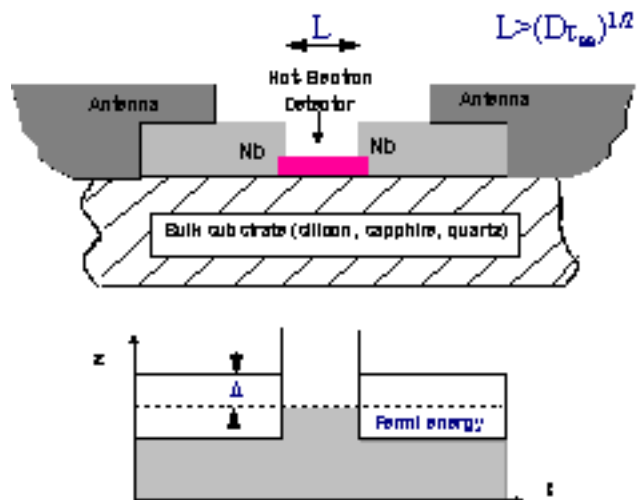


Fig. 1. Schematic diagram of the HEDD design. The low- T_c microbridge is surrounded by superconducting "Andreev mirrors" which prevent leakage of the thermal energy into the contacts. The energy gap in the microbridge is suppressed while in the contacts it is fully open. The size of superconducting contacts is small to avoid undesirable rf loss at high frequencies.