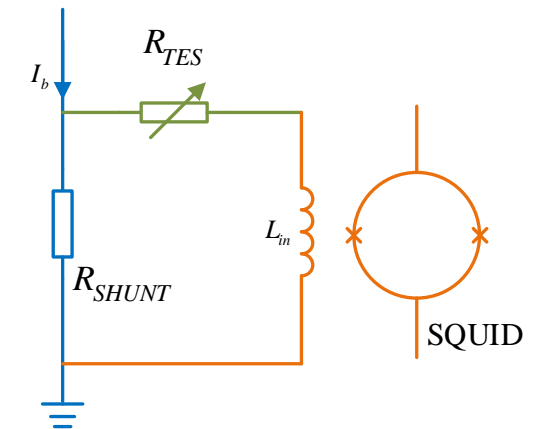
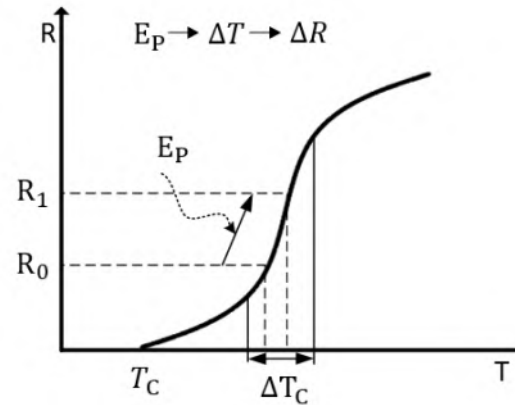
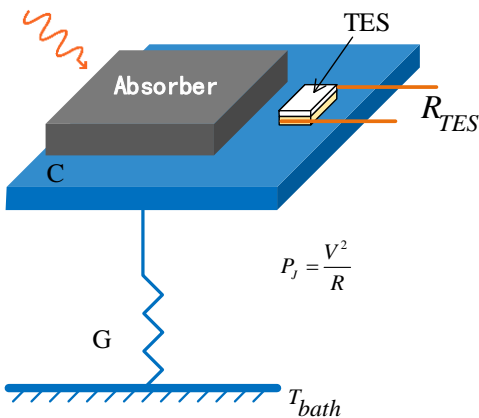


➤ Transition-Edge Sensor (TES)

- ultra-high temperature sensitivity
- stably maintained in the transition state through an AC or DC bias circuit
- The branch current is amplified by superconducting quantum interference devices (SQUID)



➤ Frequency Division Multiplexing (FDM)

- the number of thermal loads that connect the cryogenic calorimeter to the room-temperature electronics must be strictly limited

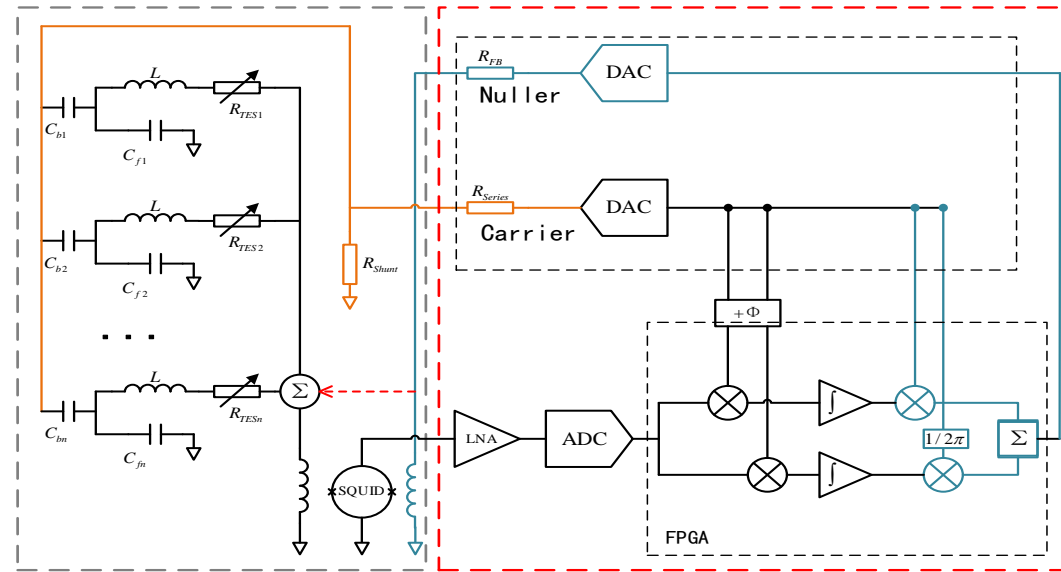
Warm electronics



➤ Design of electronics

- Carrier
- Nuller
- Sample and process

➤ Test of electronics



Cryogenic part

Warm part



16 channels of bias signals, THD=80dBc

Adjust amplitude and phase

Demodulate square waves and sinusoidal signals

