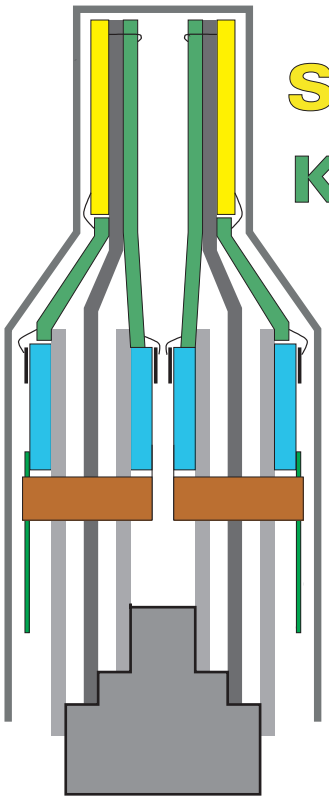
Module Design



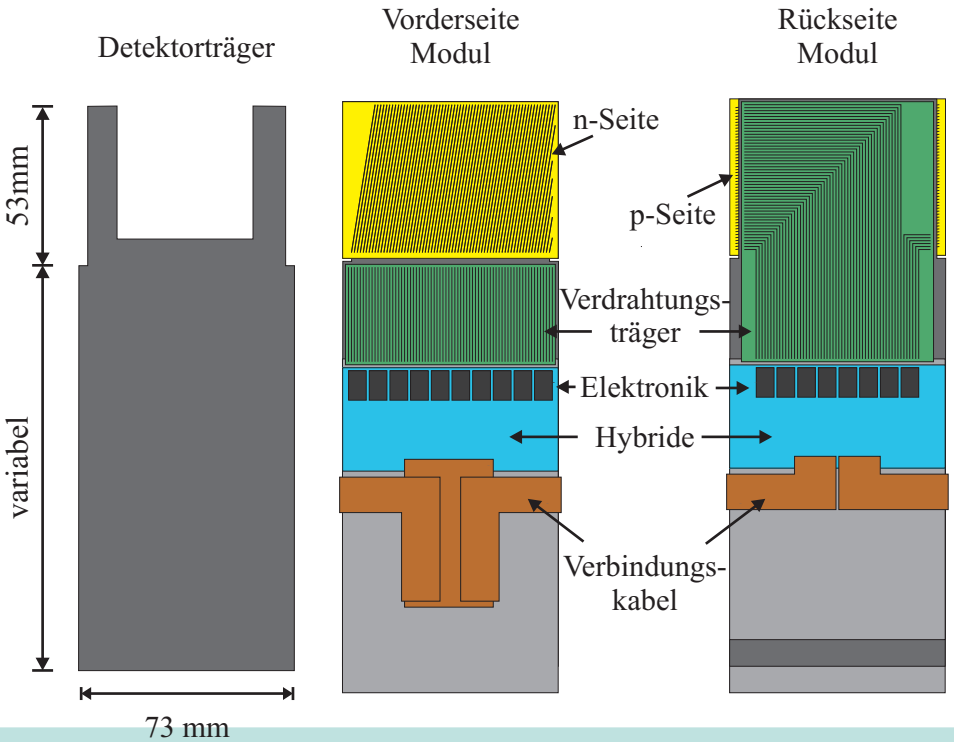
Silicon Detectors

Kapton Flex-Jumpers

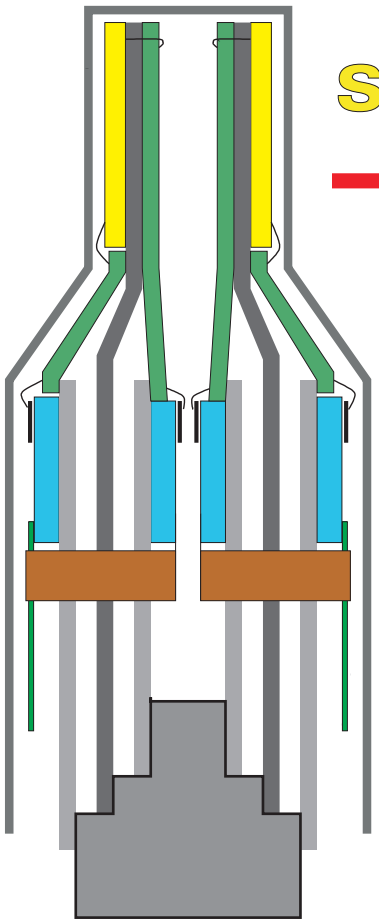
Bent Carbon Fiber

Ceramic Hybrids

Separate cooling paths for detectors and electronics!



QC for Parts



Silicon Detectors

→ manufacturer

Kapton Flex-Jumpers

→ manufacturer

[no open traces]

Bent Carbon Fiber

→ manufacturer

[moderate mecahnical accuracy]

Ceramic Hybrids

chips before mounting
hybrid after SMD loading
complete hybrid

→ more QC problems here then anywhere else