Module Selection Criteria

(Updated: 1995/9/21)

Item	Available Date/Comments
(1) Electrical performance (Noise, ...)	95 H8 beamtest?

12cm, Delay-scan (for pickup check), Signal quality, Signal variation in z

(2) Radiation length	95 H8 Realistic? Concept realistic?

Existing module, To-be-module, rϕ-/z-Binary, rϕ-/z-Analog, Extra for the type

(3) Cooling performance (*)	with irradiated detectors?

Temp. profile
One module
Multiple of modules

(4) Mechanical perfomance
(See "Module Specification" for tolerance numbers)

Construction precision
Wire-bond bondability (surface, vertical step, length,...)
Distortion with thermal cycles
Long term stability: radiation hardness, internal stability

(5) Cost aspects

No. of fixtures, complexity of construction	Construction experience?
Assembling and testing time	
Assembly yield	
Cost	

(6) Construction aspects

Mounting arrangement
Services and connectivity
Repairbility
Safety, use of hazardous materials

Notes:

(*) Comparison should be made for common # of chips, power for r/ϕ and z modules, hybrid geometry,...