Multi-channel ASIC One readout-channel Comparator ASIC Ion beam **⊕**]ref **PMTs** Output1 Input Butter C.C løpF Outpu2 60Kohm patient current conveyor Hodoscope of packed scintillating fibers array 10pF Gamma ray CSA Scatterer stack (E,x,y) Absorber (E,x,y)