

KOPIO

WBS Dictionary

10/22/2004 12:56:19 PM

1.2.4

WBS

Number	Description
1.2.4	Charged Particle Veto
1.2.4.1	Barrel Charged PV
1.2.4.1.1	Overall Design
1.2.4.1.1.1	Design Complete system and it's integration in vacuum tank
1.2.4.1.2	Scintillator Count Mods. (Bare scintillator plates)
1.2.4.1.2.2	Prototype Testing of additional prototypes, geometry and scintillator type
1.2.4.1.2.3	Fabrication/Procurement Cutting, milling and polishing (coating?)
1.2.4.1.3	Detector Modules (Light tight modules with PMT and integration in support structure)
1.2.4.1.3.1	Design
1.2.4.1.3.2	Prototype Coating vs. wrapping, PMT vs. Geigermode APD
1.2.4.1.3.3	Fabrication/Procurement 300 detector modules

1.2.4

WBS	
Number	Description
1.2.4.1.3.4	PMT assembly Type, quality selection
1.2.4.1.4	Detector Support Structure (Fixation of detector modules to vacuum tank)
1.2.4.1.4.2	Prototype Choice of material and check of mechanical stability
1.2.4.1.4.3	Fabrication/Procurement
1.2.4.1.5	Detector Module Assembly (Installation of the detector modules into the support structure)
1.2.4.1.5.3	Fabrication/Procurement
1.2.4.1.6	Calibration System (Injection of defined light pulse into each detector module)
1.2.4.1.6.2	Prototype Check signal amplitude and stability (Common solution for all KOPIO scintillators?)
1.2.4.1.6.3	Fabrication/Procurement
1.2.4.1.7	Vacuum System Integration (Separation from beam vacuum, feedthroughs through tank)
1.2.4.1.7.1	Design
1.2.4.1.7.1.1	Overall Design
1.2.4.1.7.1.2	Vacuum Flange Design Flanges contain all feedthroughs

1.2.4

WBS	
Number	Description
1.2.4.1.7.2	Prototype Selection of types
1.2.4.1.7.3	Fabrication/Procurement
1.2.4.1.8	Assembly of complete Detector
1.2.4.1.9	Detector Test (Check functionality in light tight container)
1.2.4.1.9.1	Laboratory Test Test with sources and/or cosmic rays
1.2.4.1.9.2	Beam Test Tests at PSI
1.2.4.1.10	Shipping From Zürich to Brookhaven
1.2.4.1.11	Installation at BNL
1.2.4.2	Downstream Charged PV
1.2.4.2.1	Overall Design
1.2.4.2.1.1	Design
1.2.4.2.2	Scintillator Count Mods.
1.2.4.2.2.1	Design
1.2.4.2.2.2	Prototype
1.2.4.2.2.3	Fabrication/Procurement
1.2.4.2.3	Detector Modules

1.2.4

WBS

Number	Description
1.2.4.2.3.1	Design
1.2.4.2.3.2	Prototype
1.2.4.2.3.3	Fabrication/Procurement
1.2.4.2.3.4	PMT assembly
1.2.4.2.3.5	Testing
1.2.4.2.4	Detector Support Structure
1.2.4.2.4.2	Prototype
1.2.4.2.4.3	Fabrication/Procurement
1.2.4.2.5	Detector Module Assembly
1.2.4.2.5.3	Fabrication/Procurement
1.2.4.2.6	Calibration System
1.2.4.2.6.2	Prototype
1.2.4.2.6.3	Fabrication/Procurement
1.2.4.2.6.4	Assembly/Test
1.2.4.2.7	Vacuum System Integration
1.2.4.2.7.1	Design
1.2.4.2.7.1.1	Overall Design
1.2.4.2.7.1.2	Vacuum Flange Design
1.2.4.2.7.2	Prototype
1.2.4.2.7.3	Fabrication/Procurement
1.2.4.2.8	Assembly of complete Detector

1.2.4

WBS

Number	Description
1.2.4.2.9	Detector Test
1.2.4.2.9.1	Laboratory Test
1.2.4.2.9.2	Beam Test
1.2.4.2.10	Shipping
1.2.4.2.11	Installation at BNL
1.2.4.3	On Detector Electronics (All electronic components inside vacuum)
1.2.4.3.1	Prototype
1.2.4.3.2	Fabrication/Procurement
1.2.4.4	Off Detector Electronics (All electronic components outside vacuum)
1.2.4.4.1	Cabling Selection of cable type and lengths
1.2.4.4.2	Low Voltage Supplies Common for all KOPIO?
1.2.4.4.3	HV Supplies Common for all KOPIO?
1.2.4.4.4	Splitters/connectors
1.2.4.4.5	W.f.d./discriminator Common for all KOPIO?