

sPHENIX MAPS Inner Tracker Cost Estimate											
3 MAPS layers	Updated: 8/27/2016										
FY16 dollars											
							Funding Profile				
	R&D	R&D	Construction (k\$)	Comments	Total Contingency	Cost with Contingency (k\$)	FY17	FY18	FY19	FY20	FY21
	LANL (k\$)	BNL (k\$)									
MAPS Staves	128		1064	Alice production	0.1	1170.4					
						0					
RDO boards	7.4		354	Alice production	0.1	389.4					
CRU boards	11		183.3	Alice production	0.1	201.63					
sPHENIX readout R&D	178										
DAQ integration	82.2										
						0					
ALICE Readout Teststand	40			Alice production		0					
SamTec cables	2.4		28	Alice production	0.1	30.8					
Optical links	0.6		43.2	Alice production	0.1	47.52					
						0					
LVPS etc	27.4		61.6	Alice production	0.1	67.76					
Racks	7.4					0					
Chiller & Cooling Plant	52	51	118.6	Alice production; may need to modify them to fit sPHENIX	0.3	154.18					
Safety system	29.2	56									
Mechanical integration	182	158.6			0	0					
Assembly Jigs	34.4	41.4	101	Alice production; may need to modify them to fit sPHENIX	0.3	131.3					
Test beam						0					
End wheels			35.6	Alice production	0.1	39.16					
Cylindrical Structure											
Shells			12.6	Alice production	0.1	13.86					
Detector half barrels			14.6	Alice production	0.1	16.06					
Service half barrels			121.6	Alice production	0.1	133.76					
Detector and Service Half Barrels			22.6	Alice production	0.1	24.86					
Two Half Support Structures			51.6	Alice production; may need to modify them to fit sPHENIX	0.3	67.08					
Total	782	307	2212.3			2487.77					