3S	Chinese Name	Task Name	Duration	Start	Finish	H2 H1	2019 H2 H1	2020 H2 H1	H2 H1			023 2024 2025 2026 2027 2028 2029 2030 2031 2032 20 H1 H2 H1 H2 H
	硅径迹探测器关键技术验证		1261 days	18/5/1	23/2/28	112 111	112 111	112 111	112 111	112 1		Key technology verification of silicon track detector
	力学支撑结构	detector Mechanical support structure	934 days	18/5/1	21/11/26		······································			N	/lechanical	support structure
	探测器模块几何排布优化	Layout Optimization	436 days	18/5/1	19/12/31			Lavo	ut Optimi		nechanicai	Support Structure
	探测器模块的结构初步设计	Preliminary design of ladder supporting	130 days	18/5/1	18/10/29		Prolim				norting str	ucture
	探测器整机结构初步设计	structure Preliminary design of detector supporting	260 days		19/10/28		Preliminary design of		Ī			pporting structure
		structure										
	支撑结构的工程图设计	Engineering plot design of supporting structu		19/5/1	21/4/30							design of supporting structures
	制造模块的力学支撑结构样品	production of prototype of ladder support		20/12/31								totype of ladder support
	探测器模块的结构最终设计	Final design of ladder supporting structure			21/6/30							ladder supporting structure
	探测器整机的结构最终设计	Final design of detector supporting structure		19/10/29								letector supporting structure
	制造探测器整机支撑结构	Manufacture supporting structure of detector			21/11/26							supporting structure of detector
	完成所有力学支撑结构的研制	Complete the Manufacture of all mechanical support structures	,		21/11/26				11		·	ne Manufacture of all mechanical support structures
	传感器	The sensor	919 days	18/5/1	21/11/5						he sensor	
	传感器像素内的电子学设计 ,抗辐照元件设计	Electronics design in sensor pixel, design of anti - irradiation element		18/5/1	18/12/24							of anti - irradiation element
	外围数字电路、触发、时钟与 电源等模块设计,与芯片抗辐 照性能模拟	Peripheral digital circuit, trigger, clock and power supply ladder design, and chip anti-radiation performance simulation	261 days	18/5/1	19/4/30		Pe	eripheral c	ligital circ	cuit, trig	ger, clock a	and power supply ladder design, and chip anti-radiation performance simulation
	第一次多项目晶圆 (MPW)流片	1st MPW	100 days	19/6/17	19/11/1		*	1st MP	w			
	第二次多项目晶圆 (MPW)流片	2nd MPW	90 days	20/2/18	20/6/22			+	2nd MPW	V		
	整合全功能的小面积芯片设计	Integration of fully functional small area chip	190 days	19/5/1	20/1/21			Integ	ration of	f fully fu	inctional sn	mall area chip design
6	第三次多项目晶圆	design 3rd MPW	108 days	21/1/1	21/6/1				-	3rd MP	PW	
	(MPW)流片 设计大面积,全功能的传感器 芯片	Design large area, full function sensor chip	328 days	20/5/13	21/8/13			+		Desi	ign large ar	rea, full function sensor chip
	第一次工程批硅晶圆加工	First engineering batch silicon wafer process			21/11/5					Fi		ering batch silicon wafer processing
	读出电子学与数据获取系统	Readout electronix and data acquisition system	1066 days	18/5/1	22/5/31						─ Reado	out electronix and data acquisition system
	为初次MPW的芯片研制前端 电路板		261 days	18/5/1	19/4/30		De	evelopmer	t of the f	front end	d circuit bo	oard for the initial MPW chip
	研制单个传感器芯片的数据获 取系统	Development of data acquisition system for a single sensor chip	220 days	19/5/1	20/3/3		*	De	velopmen	nt of data	a acquisitio	on system for a single sensor chip
	ladder的读出电子学	ladder readout electronic	218 days	20/8/31	21/6/30		,			ladde	r readout e	lectronic
	研制单个探测器模块的数据获 取系统	Development of data acquisition system for a single detector ladder	472 days	20/3/12	21/12/31					 ↓I	Developme	ent of data acquisition system for a single detector ladder
	原型机的读出电子学	Prototype readout electronic	132 days	21/7/1	21/12/31							readout electronic
	研制探测器原型机的数据获取 系统	Development of data acquisition system for the prototype detector	107 days	22/1/3	22/5/31					ľ	Develo	pment of data acquisition system for the prototype detector
	探测器原型机整体设计与组装	The overall design and assembly of the prototype	1066 days	18/5/1	22/5/31						The ov	verall design and assembly of the prototype
	制定探测器模块的组装流程		260 days	18/5/1	19/4/29		De	evelop the	assembl	ly proce	ss of detec	tor ladder
	制定探测器原型机的组装流程 ,开发自动组装系统	Develop the assembly process of detector prototype and develop the automatic assembly system	430 days	19/4/30	20/12/21		*		Dev	elop the	e assembly	process of detector prototype and develop the automatic assembly system
	探测模块模型试制	detector ladder trail production	66 days	21/4/30	21/7/30					detec	ctor ladder	trail production
	组装与调试首批探测器模块	·	38 days	21/11/24							Assemble a	and test the first detector ladder
	组装与测试探测器模块	Assemble and test the rest of detector ladde			22/4/29			#				ole and test the rest of detector ladders
	组装与调试探测器原型机	Assemble and debug detector prototype	22 days	22/5/2	22/5/31			#				ble and debug detector prototype
	完成探测器原型机的组装调试		0 days	22/5/31	22/5/31					5/3		lete the assembly and debugging of detector prototype
	测试与数据分析	Test and data analysis	1086 days	19/1/1	23/2/28							Test and data analysis
	对第一次MPW芯片做测试	Test 1st MPW chip	157 days	19/11/4	20/6/9			*	Test 1st N	MPW ch	ip	
	对第二次MPW的芯片做测试	Test the second MPW chip	93 days	20/8/4	20/12/10						cond MPW	
	对第三次MPW的芯片做测试	Test the third MPW chip	53 days	21/6/2	21/8/13				i		the third M	•
	对工程批芯片做测试	Test engineering chip	12 days	21/11/8	21/11/23					# To	est enginee	ering chip
	束流测试与数据分析	Beam testing and data analysis	1086 days	19/1/1	23/2/28		-				\rightarrow	Beam testing and data analysis
	東流测试模拟、重建和分析软 件开发	development of the simulaiton, reconstruction and analysis software	784 days	19/1/1	21/12/31		<u> </u>					ent of the simulaiton, reconstruction and analysis software
	模拟软件开发	development of the simulaiton software	261 days	19/1/1	19/12/31			deve	lopment of		imulaiton s	
1.2	重建软件开发	development of the reconstruction softwa	ai784 days	19/1/1	21/12/31							nt of the reconstruction software
	分析软件开发	development of the analysis software	784 days	19/1/1	21/12/31							nt of the analysis software
	束流测试实验	Beam test experiment	60 days	22/6/1	22/8/23							m test experiment
1	数据分析	The data analysis	85 days		22/12/20							The data analysis
-	发表测试结果, 撰写终期报告	Publish test results and write final report	50 days	22/12/21	23/2/28							Publish test results and write final report
5	完成项目终期报告	Complete the final project report	0 days	23/2/28					T			Complete the final project report