Gantt Chart Template

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WBS 1.5 Gantt Chart for Progress to Detector & Readout Production Readiness Reviews, Simons Observatory
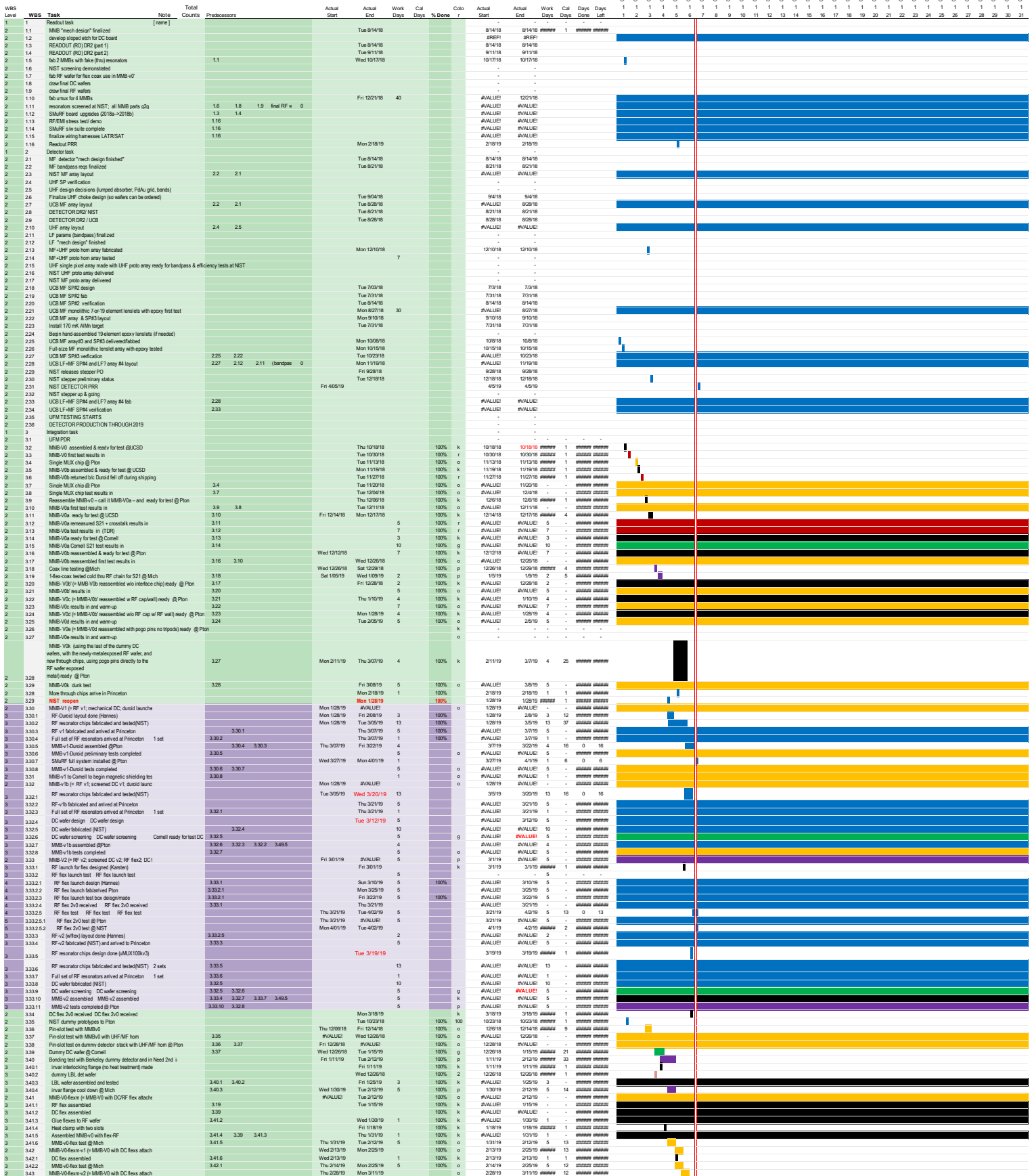
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Start:	Fri 10/19/2018	
End:	Mon 12/14/2020	
Today:	Mon 3/25/2019	
Last edits	Fri 3/22/2019	

Display: Monthly
Month: 1

| ✓ | Show Weekends (Daily view only) |

WBS Level	WBS	Task	Note	Total Counts	Predecessors	Actual Start	Actual End	Work Days	Cal Days	% Done	Color	Actual Start	Actual End	Work Days	Cal Days	Days Done	Days Left
1	1	Readout task	[name]									-	-				
2	1.1	MMB "mech design" finalized					Tue 8/14/18					8/14/18	8/14/18	#####	1	#####	#####
2	1.2	develop sloped etch for DC board										#REF!	#REF!				
2	1.3	READOUT (RO) DR2 (part 1)					Tue 8/14/18					8/14/18	8/14/18				
2	1.4	READOUT (RO) DR2 (part 2)					Tue 9/11/18					9/11/18	9/11/18				
2	1.5	fab 2 MMBs with fake (thru) resonators			1.1		Wed 10/17/18					10/17/18	10/17/18				
2	1.6	NIST screening demonstrated										-	-				
2	1.7	fab RF wafer for flex coax use in MMB-v0'										-	-				
2	1.8	draw final DC wafers										-	-				
2	1.9	draw final RF wafers										-	-				
2	1.10	fab umux for 4 MMBs					Fri 12/21/18	40				#VALUE!	12/21/18				
2	1.11	resonators screened at NIST; all MMB parts q2q			1.6 1.8 1.9 final RF w 0							#VALUE!	#VALUE!				
2	1.12	SMuRF board upgrades (2018a->2018b)			1.3 1.4							#VALUE!	#VALUE!				
2	1.13	RF/EMI stress test/ demo			1.16							#VALUE!	#VALUE!				
2	1.14	SMuRF s/w suite complete			1.16							#VALUE!	#VALUE!				
2	1.15	finalize wiring harnesses LATR/SAT			1.16							#VALUE!	#VALUE!				
2	1.16	Readout PRR					Mon 2/18/19					2/18/19	2/18/19				
1	2	Detector task										-	-				
2	2.1	MF detector "mech design finished"					Tue 8/14/18					8/14/18	8/14/18				
2	2.2	MF bandpass reqs finalized					Tue 8/21/18					8/21/18	8/21/18				
2	2.3	NIST MF array layout			2.2 2.1							#VALUE!	#VALUE!				
2	2.4	UHF SP verification										-	-				
2	2.5	UHF design decisions (lumped absorber, PdAu grid, bands)										-	-				
2	2.6	Finalize UHF choke design (so wafers can be ordered)					Tue 9/04/18					9/4/18	9/4/18				
2	2.7	UCB MF array layout			2.2 2.1		Tue 8/28/18					#VALUE!	8/28/18				
2	2.8	DETECTOR DR2/ NIST					Tue 8/21/18					8/21/18	8/21/18				
2	2.9	DETECTOR DR2 / UCB					Tue 8/28/18					8/28/18	8/28/18				
2	2.10	UHF array layout			2.4 2.5							#VALUE!	#VALUE!				
2	2.11	LF params (bandpass) finalized										-	-				
2	2.12	LF "mech design" finished										-	-				
2	2.13	MF+UHF proto horn array fabricated					Mon 12/10/18					12/10/18	12/10/18				
2	2.14	MF+UHF proto horn array tested						7				-	-				
2	2.15	UHF single pixel array made with UHF proto array ready for bandpass & efficiency tests at NIST										-	-				
2	2.16	NIST UHF proto array delivered										-	-				
2	2.17	NIST MF proto array delivered										-	-				
2	2.18	UCB MF SP#2 design					Tue 7/03/18					7/3/18	7/3/18				
2	2.19	UCB MF SP#2 fab					Tue 7/31/18					7/31/18	7/31/18				
2	2.20	UCB MF SP#2 verification					Tue 8/14/18					8/14/18	8/14/18				
2	2.21	UCB MF monolithic 7-or-19 element lenslets with epoxy first test					Mon 8/27/18	30				#VALUE!	8/27/18				
2	2.22	UCB MF array & SP#3 layout					Mon 9/10/18					9/10/18	9/10/18				
2	2.23	Install 170 mK AlMn target					Tue 7/31/18					7/31/18	7/31/18				
2	2.24	Begin hand-assembled 19-element epoxy lenslets (if needed)					Mon 10/08/18					10/8/18	10/8/18				
2	2.25	UCB MF array#3 and SP#3 delivered/fabbed					Mon 10/15/18					10/15/18	10/15/18				
2	2.26	Full-size MF monolithic lenslet array with epoxy tested			2.25 2.22		Tue 10/23/18					#VALUE!	10/23/18				
2	2.27	UCB MF SP#3 verfication			2.27 2.12 2.11 (bandpass 0		Mon 11/19/18					#VALUE!	11/19/18				
2	2.28	UCB LF+MF SP#4 and LF? array #4 layout					Tue 9/28/18					9/28/18	9/28/18				
2	2.29	NIST releases stepper PO					Tue 12/18/18					12/18/18	12/18/18				
2	2.30	NIST stepper preliminary status					Fri 4/05/19					4/5/19	4/5/19				
2	2.31	NIST DETECTOR PRR										-	-				
2	2.32	NIST stepper up & going			2.28							#VALUE!	#VALUE!				
2	2.33	UCB LF+MF SP#4 and LF? array #4 fab			2.33							#VALUE!	#VALUE!				
2	2.34	UCB LF+MF SP#4 verification										-	-				
2	2.35	UFM TESTING STARTS										-	-				
2	2.36	DETECTOR PRODUCTION THROUGH 2019										-	-				
1	3	Integration task										-	-				
2	3.1	UFM PDR					Thu 10/18/18			100%	k	10/18/18	10/18/18	#####	1		
2	3.2	MMB-V0 assembled & ready to test @UCSD					Tue 10/30/18			100%	r	10/30/18	10/30/18	#####	1	#####	#####
2	3.3	MMB-V0 first test results in					Tue 11/13/18			100%	o	11/13/18	11/13/18	#####	1		
2	3.4	Single MUX chip @ Pton					Mon 11/19/18			100%	k	11/19/18	11/19/18	#####	1	#####	#####
2	3.5	MMB-V0b assembled & ready for test @ UCSD					Tue 11/27/18			100%	r	11/27/18	11/27/18	#####	1		
2	3.6	MMB-V0b returned b/c Duroid fell off during shipping			3.4		Tue 11/20/18			100%	o	11/20/18	-				
2	3.7	Single MUX chip @ Pton			3.7		Tue 12/04/18			100%	o	12/4/18	-				
2	3.8	Single MUX chip test results in			3.9 3.8		Thu 12/06/18			100%	k	12/6/18	12/6/18	#####	1		
2	3.9	Reassemble MMB-v0 – call it MMB-V0a – and ready for test @ Pton			3.10		Tue 12/11/18			100%	o	12/11/18	-				
2	3.10	MMB-V0a first test results in					Fri 12/14/18 Mon 12/17/18			100%	k	12/14/18	12/17/18	#####	4		
2	3.11	MMB-V0a ready for test @ UCSD			3.11			5		100%	r	#VALUE!	#VALUE!	7	#####	#####	
2	3.12	MMB-V0a remeasured S21 + crosstalk results in			3.12			7		100%	o	#VALUE!	#VALUE!	7	#####	#####	
2	3.13	MMB-V0a test results in (TDR)			3.13			3		100%	k	#VALUE!	#VALUE!	3	#####	#####	
2	3.14	MMB-V0a ready for test @ Cornell			3.14			10		100%	g	#VALUE!	#VALUE!	10	#####	#####	
2	3.15	MMB-V0a Cornell S21 test results in					Wed 12/12/18	7		100%	k	12/12/18	#VALUE!	7	#####	#####	
2	3.16	MMB-V0b reassembled & ready for test @ Pton			3.16 3.10		Wed 12/26/18			100%	k	12/26/18	-				
2	3.17	MMB-V0b reassembled first test results in					Wed 12/26/18 Sat 12/29/18			100%	p	12/26/18	12/29/18	#####			
2	3.18	Coax line testing @Mich			3.18		Sat 1/05/19 Wed 1/09/19	2		100%	p	1/5/19	1/9/19	2	5		
2	3.19	1-flex-coax tested cold thru RF chain for S21 @ Mich			3.17		Fri 12/28/18	2		100%	o	#VALUE!	12/28/18	2	#####	#####	
2	3.20	MMB- V0b' (= MMB-V0b reassembled w/o interface chip) ready @ Pton			3.20			5		100%	o	#VALUE!	#VALUE!	5	#####	#####	
2	3.21	MMB-V0b' results in			3.21		Thu 1/10/19	4		100%	k	#VALUE!	1/10/19	4	#####	#####	
2	3.22	MMB-V0c (= MMB-V0b' reassembled w RF cap/wall) ready @ Pton			3.22			7		100%	o	#VALUE!	#VALUE!	7	#####	#####	
2	3.23	MMB-V0c results in and warm-up			3.23		Mon 1/28/19	4		100%	k	#VALUE!	1/28/19	4	#####	#####	
2	3.24	MMB-V0d (= MMB-V0b' reassembled w/o RF cap w/ RF wall) ready @ Pton			3.24		Tue 2/05/19	5		100%	o	#VALUE!	2/5/19	5	#####	#####	
2	3.25	MMB-V0d results in and warm-up									k	-	-				
2	3.26	MMB- V0e (= MMB-V0d reassembled with pogo pins no tripods) ready @ Pton			3.27						o	-	-				
2	3.27	MMB-V0e results in and warm-up										-	-				
2	3.28	MMB-V0k (using the last of the dummy DC wafers, with the newly-metalexposed RF wafer, and new through chips, using pogo pins directly to the RF wafer exposed metal) ready @ Pton			3.27		Mon 2/11/19 Thu 3/07/19	4		100%	k	2/11/19	3/7/19	4	25	#####	#####
2	3.29	MMB-V0k dunk test			3.28		Fri 3/08/19	5		100%	o	#VALUE!	3/8/19	5	-	#####	#####
2	3.29	More through chips arrive in Princeton					Mon 1/28/19 Mon 2/18/19	5		100%		1/28/19	2/18/19	#####	1	#####	#####
2	3.29	NIST reopen					Mon 1/28/19			100%		1/28/19	1/28/19	#####	1	#####	#####
2	3.30	MMB-V1 (= RF v1; mechanical DC; duroid launche					Mon 1/28/19 #VALUE!				o	1/28/19	#VALUE!	-	#####	#####	#####
3	3.30.1	RF-Duroid layout done (Hannes)					Mon 1/28/19 Fri 2/08/19	5		100%		1/28/19	2/8/19	5	12	#####	#####
3	3.30.2	RF resonator chips fabricated and tested(NIST)					Mon 1/28/19 Tue 3/05/19	13		100%		1/28/19	3/5/19	13	37	#####	#####
3	3.30.3	RF v1 fabricated and arrived at Princeton			3.30.1		Thu 3/07/19	5		100%		#VALUE!	3/7/19	5	-	#####	#####
3	3.30.4	Full set of RF resonators arrived at Princeton 1 set			3.30.2		Thu 3/07/19	1		100%		#VALUE!	3/7/19	1	-	#####	#####
3	3.30.5	MMB-v1-Duroid assembled @Pton			3.30.4 3.30.3		Thu 3/07/19 Fri 3/22/19	4			o	3/7/19	3/22/19	4	16	0	16
3	3.30.6	MMB-v1-Duroid preliminary tests completed			3.30.5			5			o	#VALUE!	#VALUE!	5	-	#####	#####
3	3.30.7	SMuRF full system installed @ Pton					Wed 3/27/19 Mon 4/01/19	1				3/27/19	4/1/19	1	6	0	6
3	3.30.8	MMB-v1-Duroid tests completed			3.30.6 3.30.7			5			o	#VALUE!	#VALUE!	5	-	#####	#####
3	3.31	MMB-v1 to Cornell to begin magnetic shielding tes			3.30.8			1			o	#VALUE!	#VALUE!	1	-	#####	#####
2	3.32	MMB-v1b (= RF v1; screened DC v1; duroid launc					Mon 1/28/19 #VALUE!				o	1/28/19	#VALUE!	-	#####	#####	#####
3	3.32.1	RF resonator chips fabricated and tested(NIST)					Tue 3/05/19 Wed 3/20/19	13				3/5/19	3/20/19	13	16	0	16
3	3.32.2	RF-v1b fabricated and arrived at Princeton					Thu 3/21/19	5				#VALUE!	3/21/19	5	-	#####	#####
3	3.32.3	Full set of RF resonators arrived at Princeton 1 set			3.32.1		Thu 3/21/19	1				#VALUE!	3/21/19	1	-	#####	#####
3	3.32.4	DC wafer design DC wafer design					Tue 3/12/19	5				#VALUE!	3/12/19	5	-	#####	#####
3	3.32.5	DC wafer fabricated (NIST)			3.32.4			10				#VALUE!	#VALUE!	10	-	#####	#####
3	3.32.6	DC wafer screening DC wafer screening Cornell ready for test DC			3.32.5			5			g	#VALUE!	#VALUE!	5	-	#####	#####
3	3.32.7	MMB-v1b assembled @Pton			3.32.6 3.32.3 3.32.2 3.49.5			4			o	#VALUE!	#VALUE!	4	-	#####	#####
3	3.32.8	MMB-v1b tests completed			3.32.7			5			o	#VALUE!	#VALUE!	5	-	#####	#####
2	3.33	MMB-V2 (= RF v2; screened DC v2; RF flex2; DC f					Fri 3/01/19 #VALUE!	5			p	3/1/19	#VALUE!	5	#####	#####	#####
3	3.33.1	RF launch for flex designed (Karsten)					Fri 3/01/19				k	3/1/19	3/1/19	#####	1		
3	3.33.2	RF flex launch test RF flex launch test						5				-	-	5	-	-	-
4	3.33.2.1	RF flex launch design (Hannes)			3.33.1		Sun 3/10/19	5		100%		#VALUE!	3/10/19	5	-	#####	#####
4	3.33.2.2	RF flex launch fab/arrived Pton			3.33.2.1		Mon 3/25/19	5				#VALUE!	3/25/19	5	-	#####	#####
4	3.33.2.3	RF flex launch test box design/made			3.33.2.1		Fri 3/22/19	5		100%		#VALUE!	3/22/19	5	-	#####	#####
4	3.33.2.4	RF flex 2v0 received RF flex 2v0 received			3.33.1		Thu 3/21/19	5				#VALUE!	3/21/19	5	-	#####	#####
4	3.33.2.5	RF flex test RF flex test RF flex test					Thu 3/21/19 Tue 4/02/19	5				3/21/19	4/2/19	5	13	0	13
5	3.33.2.5.1	RF flex 2v0 test @ Pton					Thu 3/21/19 #VALUE!	5				3/21/19	#VALUE!	5	-	#####	#####
5	3.33.2.5.2	RF flex 2v0 test @ NIST					Mon 4/01/19 Tue 4/02/19	2				4/1/19	4/2/19	2	2	#####	#####
3	3.33.3	RF-v2(w/flex) layout done (Hannes)			3.33.2.5			2				#VALUE!	#VALUE!	2	-	#####	#####
3	3.33.4	RF-v2 fabricated (NIST) and arrived to Princeton			3.33.3			5				#VALUE!	#VALUE!	5	-	#####	#####
3	3.33.5	RF resonator chips design done (uMUX100x,v3)					Tue 3/19/19	1				3/19/19	3/19/19	#####	1	#####	#####
3	3.33.6	RF resonator chips fabricated and tested(NIST) 2 sets			3.33.5			13				#VALUE!	#VALUE!	13	-	#####	#####
3	3.33.7	Full set of RF resonators arrived at Princeton 1 set			3.33.6			1				#VALUE!	#VALUE!	1	-	#####	#####
3	3.33.8	DC wafer fabricated (NIST)			3.32.5			10				#VALUE!	#VALUE!	10	-	#####	#####
3	3.33.9	DC wafer screening DC wafer screening			3.32.5 3.32.6			5			g	#VALUE!	#VALUE!	5	-	#####	#####
3	3.33.10	MMB-V2 assembled MMB-v2 assembled			3.33.4 3.33.7 3.33.7 3.49.5			5			k	#VALUE!	#VALUE!	5	-	#####	#####
3	3.33.11	MMB-v2 tests completed @ Pton			3.33.10 3.32.8			5			p	#VALUE!	#VALUE!	5	-	#####	#####
2	3.34	DC flex 2v0 received w reworked DC flex 2v0 received					Mon 3/18/19			100%	k	3/18/19	3/18/19	#####	1	#####	#####
2	3.35	NIST dummy prototypes to Pton								100%	100	10/23/18	10/23/18	#####	1	#####	#####
2	3.36	Pin-slot test with MMBv0					Thu 12/06/18 Fri 12/14/18			100%	o	12/6/18	12/14/18	#####	9	#####	#####
2	3.37	Pin-slot test with MMBv0 with UHF/MF horn			3.35		#VALUE! Wed 12/26/18			100%	o	12/26/18	-				
2	3.38	Pin-slot test on dummy detector stack with UHF/MF horn @ Pton			3.36 3.37		Fri 12/28/18 Tue 1/15/19			100%	o	12/28/18	1/15/19	#####	21	#####	#####
2	3.39	Dummy DC wafer @ Cornell			3.37		Wed 12/26/18 Tue 2/12/19	5		100%	g	12/26/18	2/12/19	#####	27	#####	#####
2	3.40	Bonding test with Berkeley dummy detector and in Need 2nd ii					Fri 1/11/19 Tue 2/12/19			100%	p	1/11/19	2/12/19	#####	33	#####	#####
3	3.40.1	invar interlocking flange (no heat treatment) made					Fri 1/11/19			100%	k	1/11/19	1/11/19	#####	1		
3	3.40.2	dummy LBL det wafer					Wed 12/26/18			100%	k	12/26/18	12/26/18	#####	1		
3	3.40.3	LBL wafer assembled and tested			3.40.1 3.40.2		Fri 1/25/19	3		100%	k	1/25/19	1/25/19	3	1		
3	3.40.4	invar flange cool down @ Mich			3.40.3		Wed 1/30/19 Tue 2/12/19	5		100%	p	1/30/19	2/12/19	5	14	#####	#####
2	3.41	MMB-V0-flexm (= MMB-V0 with DC/RF flex attache					#VALUE! Tue 2/12/19			100%	k	#VALUE!	2/12/19	-			
3	3.41.1	RF flex assembled			3.19		Tue 1/15/19			100%	k	#VALUE!	1/15/19				
3	3.41.2	DC flex assembled			3.39					100%		#VALUE!	#VALUE!				
3	3.41.3	Glue flexes to RF wafer			3.41.2		Wed 1/30/19	1		100%		#VALUE!	1/30/19				
3	3.41.4	Heat clamp with two slots					Fri 1/18/19			100%		1/18/19	1/18/19	#####	1		
3	3.41.5	Assembled MMB-v0 with flex-RF			3.41.3 3.39 3.41.3		Wed 1/30/19	5		100%	k	1/30/19	1/30/19	5	1		
3	3.41.6	MMB-V0-flex test @ Mich			3.41.5		Thu 1/31/19 Tue 2/12/19	5		100%	o	1/31/19	2/12/19	5	13	#####	#####
2	3.42	MMB-V0-flexm-v1 (= MMB-V0 with DC flexs attach					Wed 2/13/19 Mon 2/25/19	5		100%	k	2/13/19	2/25/19	5	#####	#####	#####
3	3.42.1	DC flex assembled			3.41.6		Wed 2/13/19	1		100%	k	2/13/19	2/13/19	1	1		
3	3.42.2	MMB-v0-flex test @ Mich			3.42.1		Thu 2/14/19 Mon 2/25/19	5		100%	o	2/14/19	2/25/19	5	#####	#####	#####
2	3.43	MMB-V0-flexm-v2 (= MMB-V0 with DC flexs attach					Thu 2/28/19 Mon 3/11/19	12		100%	o	2/28/19	3/11/19	#####	12	#####	#####

3	3.43.1	DC flex assembled	3.41.4		Thu 2/28/19			100%	k	2/28/19	2/28/19	#####	1	##### #####
3	3.43.2	MMB-v0-flex test @ Mich	3.43.1		Fri 3/01/19	Mon 3/11/19			o	3/1/19	3/11/19 #####	11	##### #####
2	3.44	Heat test D0a ready&test @ Mich			Thu 2/14/19	Mon 2/25/19		100%	o	2/14/19	2/25/19 #####	12	##### #####
3	3.44.1	MMB heat test assembled				Thu 2/14/19	1	100%	k	2/14/19	2/14/19	1	1	##### #####
3	3.44.2	Heat test D0a test @ Mich	3.44.1		Thu 2/14/19	Mon 2/25/19	5	100%	o	2/14/19	2/25/19	5	12	##### #####
2	3.45	Heat test D0a' ready&test @ Mich			#VALUE!	Mon 3/11/19		100%		#VALUE!	3/11/19	-		##### #####
3	3.45.1	MMB heat test assembled	3.44.2			Thu 2/28/19		100%	k	#VALUE!	2/28/19	-		##### #####
3	3.45.2	Heat test D0a' test @ Mich	3.45.1		Fri 3/01/19	Mon 3/11/19		100%	o	3/1/19	3/11/19 #####	11	##### #####
2	3.46	2nd Mechanical NIST detector wafer test on HF/MI			Fri 3/01/19	Mon 3/11/19		100%		3/1/19	3/11/19 #####	11	##### #####
2	3.47	Heat test D0a'(==D0a', add thermometer on hom ar			#VALUE!	#VALUE!				#VALUE!	#VALUE!	-		##### #####
3	3.47.1	MMB heat test assembled	3.45.2			Fri 3/15/19	6		k	#VALUE!	3/15/19	-		##### #####
3	3.47.2	Heat test D0a'' @ Mich	3.47.1				6		o	#VALUE!	3/15/19 #####	6	-	##### #####
3	3.48	mich fridge rack move mich fridge rack move			Wed 3/13/19	Fri 3/15/19				3/13/19	3/15/19 #####	3	##### #####
2	3.49	Heat test D0b(==D0a', w/ G10 removed) ready&tes			#VALUE!	#VALUE!			k	#VALUE!	#VALUE!	-		##### #####
3	3.49.1	MMB heat test assembled	3.47.2				1		k	#VALUE!	#VALUE!	1	-	##### #####
3	3.49.2	RF flex 2v0 test RF flex 2v0 test			Thu 3/21/19	Fri 3/22/19				3/21/19	3/22/19 #####	2	##### #####
3	3.49.3	Mech-UFM test Mech-UFM test			Mon 3/25/19	Mon 3/25/19			k	3/25/19	3/25/19 #####	1	##### #####
4	3.49.3.1	2nd Mechanical NIST detector wafer test on HF/MF hom array w/ Al pogo	3.33.2.4		Mon 3/25/19		1		k	3/25/19	3/25/19	1	1	0	1
4	3.49.4	MMB-V0-flexm-v3 (= RF with DC 2V0/RF 2V0 flex			Thu 3/21/19	#VALUE!				3/21/19	#VALUE!	-		##### #####
4	3.49.4.1	RF flex assembled			Thu 3/21/19		1		k	3/21/19	3/21/19	1	1	0	1
4	3.49.4.2	DC flex assembled			Thu 3/21/19		3		k	3/21/19	#VALUE!	3	-	##### #####
3	3.49.5	Heat test D0b test +RF-flex box + Mech-UFM + MMB-V0-flexm-v3@ Mich	3.49.1				7		o	#VALUE!	#VALUE!	7	-	##### #####
2	3.50	Heat test D0c(no G10, thermometer on HC, Braid b			#VALUE!	#VALUE!				#VALUE!	#VALUE!	-		##### #####
3	3.50.1	MMB heat test assembled	3.49.5				3		k	#VALUE!	#VALUE!	3	-	##### #####
3	3.50.2	Heat test D0c @ Mich	3.50.1				3		o	#VALUE!	#VALUE!	3	-	##### #####
2	3.51	3 coax chain installed in Pton			Mon 2/18/19		1	100%	p	2/18/19	2/18/19	1	1	##### #####
2	3.52	3 new chains tested in Pton (single-mux-box)	3.51		Mon 2/18/19	Mon 2/18/19	1	100%	p	2/18/19	2/18/19	1	1	##### #####
2	3.53	Pton DR move				Tue 3/05/19	2	100%	p	#VALUE!	3/5/19	2	-	##### #####
2	3.54	Install old 1-chain from Pton DR into Michigan DR				Mon 3/11/19	1		o	3/11/19	3/11/19	1	1	0	1
2	3.55	Oxford service			Tue 3/12/19	Fri 3/15/19			k	3/12/19	3/15/19 #####	4	##### #####
2	3.56	Mich fridge rack move			Tue 3/12/19	Wed 3/13/19			o	3/12/19	3/13/19 #####	2	##### #####
2	3.57	READOUT PRR	3.33.11				5		b	#VALUE!	#VALUE!	5	-	##### #####
2	3.58	First UFM-v0 with prototype MF detector array and MMB v1b			Mon 1/07/19	#VALUE!				1/7/19	#VALUE!	-		##### #####
3	3.58.1	First UHF/MF feedhorn array @ Pton	actual date earlier		Mon 1/07/19		1			1/7/19	1/7/19	1	1	0	1
3	3.58.2	MF detector design finalized	actual date earlier		Sat 12/15/18		1			12/15/18	12/15/18	1	1	0	1
3	3.58.3	MF detector array fab finished			Mon 1/28/19		10			1/28/19	#VALUE!	10	-	##### #####
3	3.58.4	UFM-v0 assembled @ Pton	w/ time to extract MMB-v	3.32.8	3.58.3	3.58.1			5		#VALUE!	#VALUE!	5	-	##### #####
3	3.58.5	UFM-v0 preliminary testing complete	3.58.4				5		o	#VALUE!	#VALUE!	10	-	##### #####
3	3.58.6	UFM-v0 detailed dark/efficiency testing complete	3.58.5				5		o	#VALUE!	#VALUE!	5	-	##### #####
3	3.58.7	UFM-v0 @ UCSD	3.58.6				5			#VALUE!	#VALUE!	5	-	##### #####
3	3.58.8	UFM-v0 optical testing @ UCSD complete	3.58.7				14		r	#VALUE!	#VALUE!	5	-	##### #####
2	3.59	MF DETECTOR PRR	3.58.6				5			#VALUE!	#VALUE!	5	-	##### #####