

SNDICE

- Schedule
- Manpower
- Cost
- Risks

Calibration Bench

ASIC

LEDs Head
Mechanical support

LEDs Head
Electronic Readout & Control

Schedule

N°	Nom de la tâche	Début	Fin	2006				2007				2008					
				Tri 4	Tri 1	Tri 2	Tri 3	Tri 4	Tri 1	Tri 2	Tri 3	Tri 4	Tri 1	Tri 2	Tri 3	Tri 4	
1																	
2	CALIB@CFHT	Lun 16/01/06	Mer 06/08/08														
3	present LEDs head	Lun 16/01/06	Lun 04/09/06	16/01					04/09								
4	mechanical study	Lun 16/01/06	Ven 17/02/06														
5	drawing	Lun 06/03/06	Ven 17/03/06														
6	manufacture	Lun 20/03/06	Ven 28/04/06														
7	positioning of the LEDs	Mar 02/05/06	Ven 30/06/06														
8	tests on bench	Lun 03/07/06	Lun 04/09/06														
9	Cooled Large Area Photodiode	Mar 30/05/06	Jeu 16/11/06						30/05					16/11			
10	Acquisition (with ampli + without ampli)	Mar 30/05/06	Jeu 07/09/06														
11	making the support	Ven 09/09/06	Jeu 19/10/06														
12	thermal & electric tests	Ven 20/10/06	Jeu 16/11/06														
13	Conception & realisation pA electronic chain	Lun 11/09/06	Lun 15/10/07														
14	Order for Keithley & Femto préampli	Mar 10/10/06	Lun 04/12/06														
15	Prototype of Asic	Lun 11/09/06	Lun 15/10/07														
16	Conception	Lun 11/09/06	Ven 20/10/06														
17	submission	Mar 24/10/06	Lun 18/12/06														
18	delivery	Lun 15/01/07	Lun 15/01/07														
19	test	Mar 16/01/07	Lun 26/03/07														
20	final electronic chain -picoamp-	Mar 24/04/07	Lun 15/10/07														
21	Calibration bench	Ven 06/10/06	Lun 11/06/07														
22	requirements	Ven 06/10/06	Mar 24/10/06														
23	study and drawing (black box & mvt XYZ)	Mer 25/10/06	Mar 21/11/06														
24	manufacture	Mer 22/11/06	Mar 19/12/06														
25	integration	Mer 20/12/06	Mar 02/01/07														
26	Test on 'CFHT' bench	Mar 01/05/07	Lun 11/06/07														
27	LEDs head	Jeu 07/09/06	Lun 30/04/07														
28	choice of LEDs	Jeu 07/09/06	Ven 22/12/06														
29	mechanical study	Mer 22/11/06	Mar 16/01/07														
30	drawing	Mer 17/01/07	Lun 19/03/07														

13/11/2006

Review of a proposal to monitor and calibrate Megaprime at CFHT

Schedule

N°	Nom de la tâche	Début	Fin	2006				2007				2008							
				Tri 4	Tri 1	Tri 2	Tri 3	Tri 4	Tri 1	Tri 2	Tri 3	Tri 4	Tri 1	Tri 2	Tri 3	Tri 4			
31	manufacture	Mar 20/03/07	Lun 30/04/07																
32	Calibrated diode	Lun 27/11/06	Ven 09/03/07																
33	purchase diode calibrated NIST / Ghz Optik	Lun 27/11/06	Ven 16/02/07																
34	manufacture of the support	Lun 19/02/07	Ven 02/03/07																
35	electric tests	Lun 05/03/07	Ven 09/03/07																
36	LEDs head electronics	Ven 13/10/06	Jeu 29/03/07																
37	electronic study	Ven 13/10/06	Jeu 09/11/06																
38	CAD	Ven 10/11/06	Jeu 04/01/07																
39	manufacture	Ven 05/01/07	Jeu 01/03/07																
40	test	Ven 02/03/07	Jeu 29/03/07																
41	Data acquisition (soft)	Lun 13/11/06	Jeu 13/12/07																
42	calibration acquisition	Lun 13/11/06	Ven 15/06/07																
43	monitoring acquisition	Ven 30/03/07	Jeu 13/12/07																
44	LEDs head calibration	Lun 25/06/07	Ven 27/07/07																
45	photométric calibration	Lun 25/06/07	Ven 27/07/07																
46	spectrométric calibration	Lun 25/06/07	Ven 27/07/07																
47	CFH integration	Lun 04/12/06	Jeu 27/12/07																
48	evaluation trip at CFHT Hawai	Lun 04/12/06	Mar 12/12/06																
49	CFHT requirements	Mer 13/12/06	Mar 09/01/07																
50	CFHT agreement	Lun 18/12/06	Lun 18/12/06																
51	integration study	Lun 05/03/07	Jeu 03/05/07																
52	drawing	Ven 04/05/07	Jeu 05/07/07																
53	manufacture	Ven 06/07/07	Jeu 06/09/07																
54	Integration & Commissioning at LPNHE	Ven 07/09/07	Jeu 18/10/07																
55	transport study	Lun 08/07/07	Ven 20/07/07																
56	transport	Ven 26/10/07	Jeu 08/11/07																
57	CFHT installation	Ven 23/11/07	Jeu 27/12/07																
58	working on CFHT	Lun 07/01/08	Mer 06/08/08																

Manpower

Group	Project	Name	IN2P3 ref,	Task	2006-T2	2006-T3	2006-T4	2007-T1	2007-T2	2007-T3	2007-T4
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Electronics	SUPERNOVA	BAILLY Philippe	TLB	Test bench	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Electronics	SUPERNOVA	GOFFIN Colette	SL	CAD pcb	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Electronics	SUPERNOVA	GUIMARD Andrée	TL	cabling	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Electronics	SUPERNOVA	LEBBOLO Hervé	IDL	analogic conc	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Electronics	SUPERNOVA	SEFRI Rachid	IL	asic			1	1	1	1	1
Electronics	SUPERNOVA	VALLEREAU Alain	IL	Test bench	0.2	0.2	0.2	0.2	0.2	0.2	0.2

3.4 FTE

Mechanics	SUPERNOVA	BERTOLI Walter	IMA	mechanical s	0.2	0.5	0.2	0.7	0.8	0.9	0.9
Mechanics	SUPERNOVA	EVARD Christophe	SMA	mechanical s	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Mechanics	SUPERNOVA	REPAIN Philippe	SMC	mechanical in			0.1	0.1	0.1	0.1	0.3
Mechanics	SUPERNOVA	VINCENT Daniel	IMA	project mana	0.2	0.2	0.2	0.2	0.2	0.2	0.2

2.6 FTE

Soft	SUPERNOVA	HUPPERT J.-F.	IIC	développement	0.10	0.10	0.10	0.10	0.10	0.10	0.10
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0.2 FTE

Physicists	SUPERNOVA	BARRELET Etienne			0.15	0.15	0.15	0.15	0.15	0.15	0.15
Physicists	SUPERNOVA	JURAMY Claire			1	1	1	1	1	1	1
Physicists	SUPERNOVA	SCHAHMANECHE Kyan			0.5	0.5	0.5	0.5	0.5	0.5	0.5

2.9 FTE

Total = 9.1 FTE

Cost

2006	2007	2008	2009	Total
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DEVICE

Electronics	5 k€	5 k€			10 k€
FPGA	5 k€	5 k€			10 k€
ASIC	10 k€	5 k€			15 k€
DAQ	5 k€	5 k€			10 k€
Cooled Photodiode	5 k€				5 k€
NIST Photodiode		5 k€			5 k€
Calibration Bench		10 k€			10 k€
Contingency		5 k€			5 k€
Maintenance			5 k€	5 k€	10 k€

MISSIONS

Mission to Hawaiï		15 k€	10 k€	10 k€	35 k€
Shipping and installation		10 k€			10 k€

TOTAL

30 k€	65 k€	15 k€	15 k€	125 k€
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Risks

- CFHT agreement
- choice of LEDs
 - Mechanical study :
precision of positioning : rather 100 μ than 200 μ (today)
- Manpower: replacement of C. Juramy