

## SiW ECAL planning

In ANR project (Rémi), we have several deadlines to meet  
shapes our project as a whole

### STATUS (electronics, system integration)

- have a few partially instrumented FEV7 ASU with packaged SPIROC2(a) ASICs  
Now being tested with CALICE DAQ2, adapter card, soon with cosmics
- SKIROC2 ASIC is being tested, no major problems identified
- work on design of ChipOnBoard PCB (FEV8) continuing

## STATUS (electronics, system integration)

- have a few partially instrumented FEV7 ASU with packaged SPIROC2(a) ASICs  
Now being tested with CALICE DAQ2, adapter card, soon with cosmics
- SKIROC2 ASIC is being tested, no major problems identified
- work on ChipOnBoard PCB FEV8 continuing

## PLAN

- first priority, conservative option: a few (~10) layer prototype by next summer with **packaged** SKIROC2 ASICs

→ implies “U” structure

Test beams:

1 or 2 layer test ~March 2012 (SPIROC2 and/or SKIROC2)

10 layer test June/July 2012

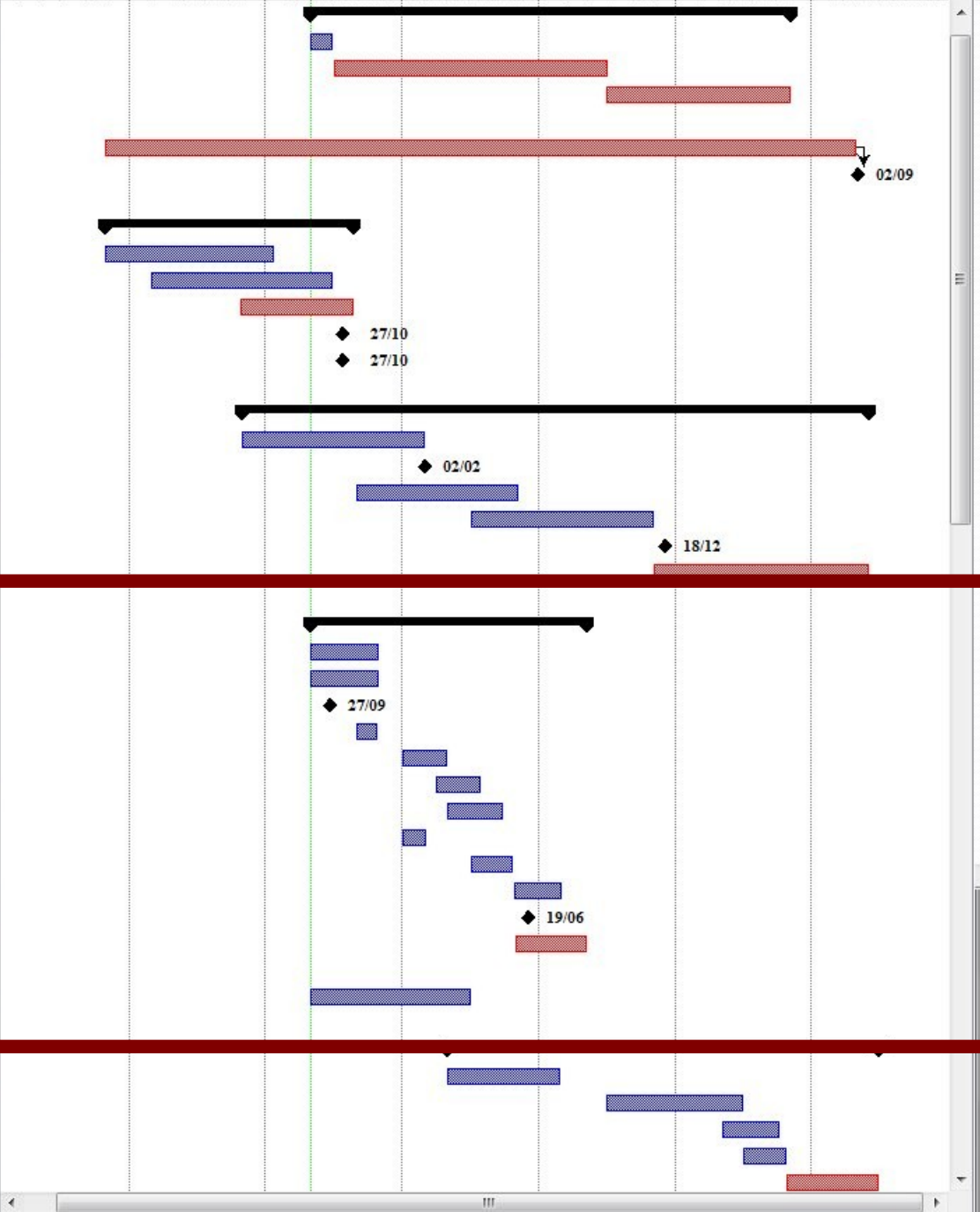
- second stage will be to develop SKIROC2 ChipOnBoard version  
Work on PCB design continues in parallel with above

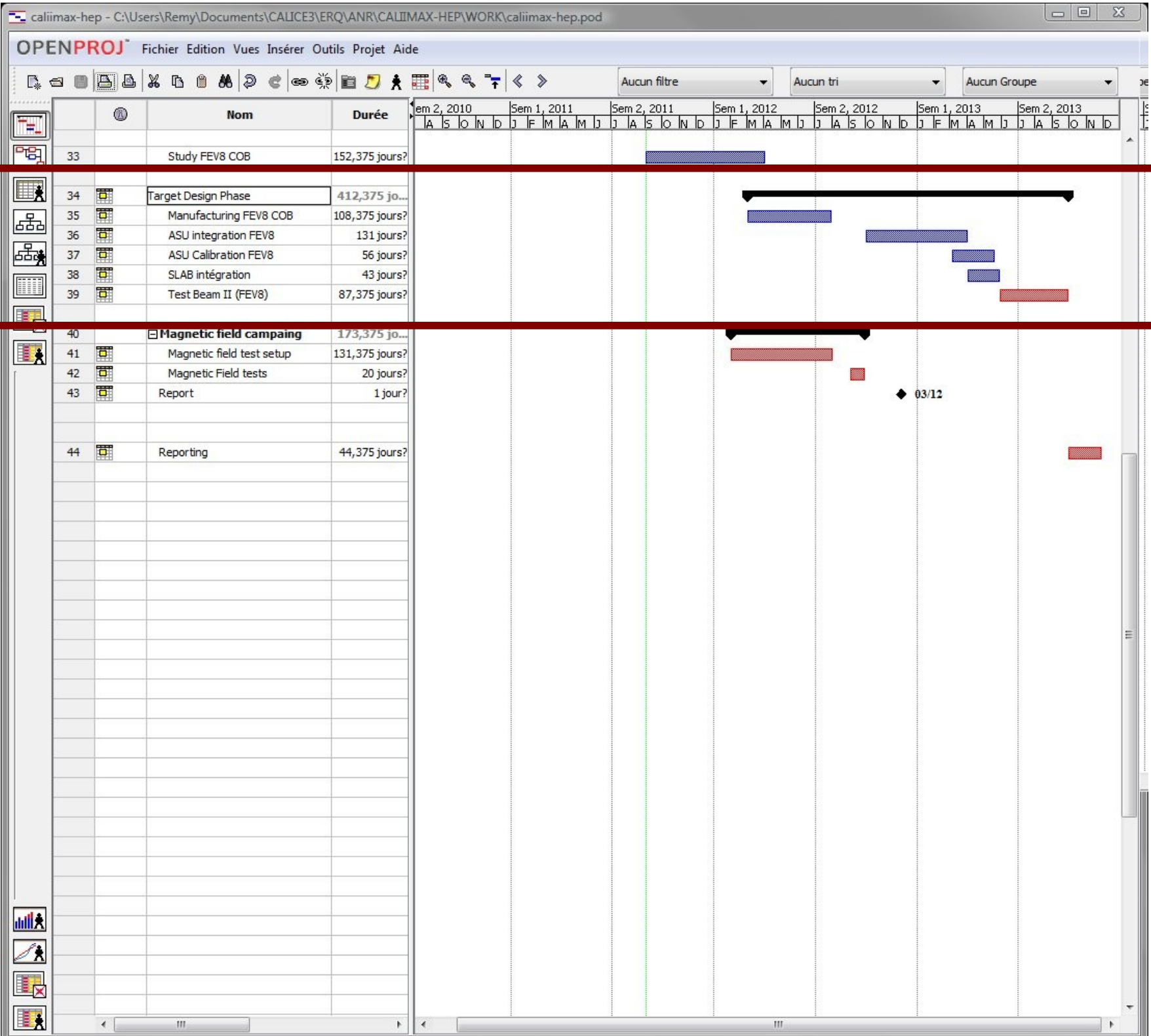
FEV8 ASU integration (bonding, gluing) ~ from september 2012

Multi-layer prototype tests mid-2013

	em 2, 2010	Sem 1, 2011	Sem 2, 2011	Sem 1, 2012	Sem 2, 2012	Sem 1, 2013	Sem 2, 2013
	A S O N D J F M A M J	J A S O N D J F M A M J	J A S O N D J F M A M J	J A S O N D J F M A M J	J A S O N D J F M A M J	J A S O N D J F M A M J	J A S O N D J F M A M J

	Nom	Durée
1	<b>Sensors</b>	457,375 jo...
2	Contact	21,375 jours?
3	Process specification	263 jours?
4	Process validation	175,875 jours?
5	System Optimization	717,25 jours?
6	Report	1 jour?
7	<b>Environment setting up</b>	237,375 jo...
8	DAQ integration (V0)	162,375 jours?
9	FEV7 CIP Validation	175 jours?
10	SKIROC tests	109,375 jours?
11	Assembly procedure validation	9,375 jours?
12	DAQ enabled (V0)	9,375 jours?
13	<b>SOFTWARE (DAQ, monitoring,</b>	598,375 jo...
14	Initial version, proto GUI	175,375 jours?
15	Prototype release	1 jour?
16	Framework Integration	154,25 jours?
17	Production version	175,375 jours?
18	Production release	1 jour?
19	Maintenance / Updates	206 jours?
20	<b>Conservative Design Phase</b>	263,375 jo...
21	FEV7.1 CIP new version	66,375 jours?
22	FEV8 CIP (SKIROC)	65,375 jours?
23	Decision choice conservative des	1 jour?
24	Mechanical Structure	21,375 jours?
25	FEVx Validation	44,375 jours?
26	ASU integration (CIP)	43,375 jours?
27	ASU calibration (CIP)	53,375 jours?
28	U shape absorbers	24,375 jours?
29	SLAB intégration	42 jours?
30	Test Beam I (CIP)	45,375 jours?
31	Decision choice CIP vs COB	1 jour?
32	Second batch (option)	67,375 jours?
33	Study FEV8 COB	152,375 jours?
35	Manufacturing FEV8 COB	108,375 jours?
36	ASU integration FEV8	131 jours?
37	ASU Calibration FEV8	56 jours?
38	SLAB intégration	43 jours?
39	Test Beam II (FEV8)	87,375 jours?





Rémi