

**W.P. 10**

**« Cryostat Integration Tests »**

in CryHoLab

# CryHoLab involvement (CARE)

JRA1 ( SRF )

9 cells 1.3 GHz  $\beta = 1$

WP 8 (tuners)

WP 9 (low level RF)

30 weeks

( test series of 2 weeks )

JRA3 ( HIPPI )

5 cells 700 MHz  $\beta = 0.47$

WP 3 (elliptical cavities)

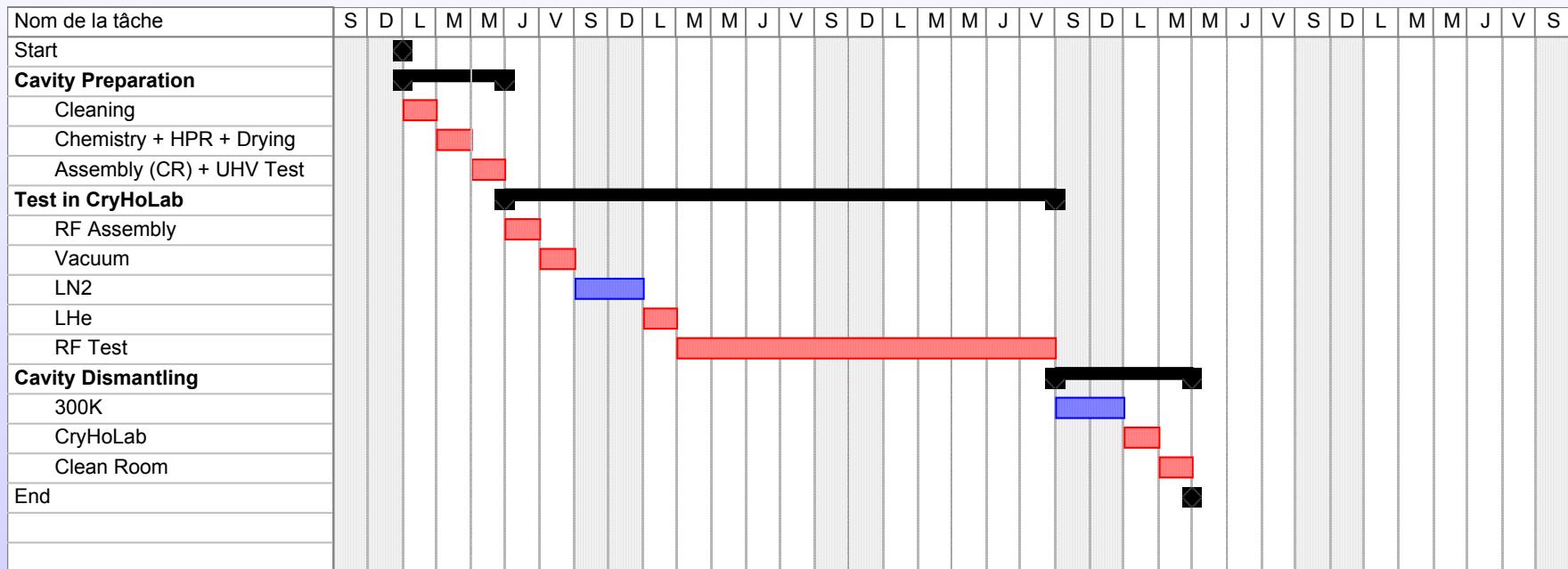
2 cavities – 1 MW pulsed

20 weeks

# 18 months

Task Name	Milestones	Deliverables	2004												2005											
			12	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09		
WP10 Cryostat integration tests																										
10.1 Displace CRYHOLAB																										
10.1.1 Move CRYHOLAB, commissioning																										
10.1.2 Report on Intended Integration tests in CRYHOLAB	Schedule of Integration tests																									
10.2 Integration tests in cryostat																										
10.2.1 First experiment in CRYHOLAB	Start operation																									
10.2.1 Test 1																										

# Typical Test on 2 weeks (LHe)



23 days for cavity handling  $\Leftrightarrow$  9 working days for RF test

# Milestone - Deliverable

Reports at the end of each test series

## Planning ( WP8 & WP9 )

CryHoLab transfer	:	2004 (T3 →)
1 <sup>st</sup> series ( MS & CEA tuner ):		2005 (T2 →)
2 <sup>nd</sup> series ( IN2P3 activity )	:	2006 (T1 →)
3 <sup>rd</sup> series ( UMI tuner )	:	2007 (T3 →)

# Planning for CryHoLab

( T1 & T2 2004 )

« Cold Tuning System » (P. Bosland)

motor and mechanism test for S3HC and SOLEIL cavities

useful for SRF/WP8 ( CEA tuner )

Proton Cavity ( 5cells - 700 MHz –  $\beta = 0.65$  )

performance improvements

useful for HIPPI/WP3 ( elliptical cavities )

