

NEWS

Season 2004

Date & Time	Type	Description of event
10/9/2004 11:29:13 AM	<i>magnet</i>	Magnet at 232 K. --Jaakko
10/6/2004 2:47:51 PM	<i>magnet</i>	Magnet at 100 K today noon. --Jaakko
10/5/2004 1:02:01 PM	<i>general ...</i>	Target material unloading 08:00 - 14:00. --Jaakko
10/4/2004 10:06:53 AM	<i>refrigerator</i>	Started to remove 3He/4He mixture at 9:30. --Jaakko
10/1/2004 2:25:35 PM	<i>polarization</i>	Polarization was lost at 14:15 due to loss of demineralized cooling water. --Jaakko
9/29/2004 11:47:20 PM	<i>polarization</i>	Go to frozen spin mode for the night. --Jaakko
9/28/2004 11:20:22 AM	<i>microwave</i>	Restart polarization from -50.73 % upstream and +51.17 % downstream after field rotation. --Jaakko
9/28/2004 10:15:27 AM	<i>magnet</i>	SUN magnet program restarted at 9:40 due to problems in setting current. --Jaakko
9/24/2004 1:30:39 PM	<i>polarization</i>	Polarization reversed by microwave this morning. 7:45 Set field zero to brake polarization. 8:30 Set field back to 2.5 T. 9:00 Start polarization.
9/24/2004 12:17:57 PM	<i>polarization</i>	Microwave polarization reversal was started today morning at 8:30. - -Jaakko
9/6/2004 1:04:13 PM	<i>general ...</i>	Platform re-enforcement was done this morning. During the work isolation vacuum pumps stopped. Dipole PSU was ramped up to save polarization. Fuse in the isolation vacuum pump box was changed and normal operation was recovered. --Jaakko
9/6/2004 8:59:14 AM	<i>polarization</i>	Polarization measured after transverse run at 7:30 +46.83 % upstream and -40.96 % downstream. --Jaakko
9/6/2004 8:55:37 AM	<i>microwave</i>	Started to increase polarization with microwaves. --Jaakko
9/2/2004 12:07:19 PM	<i>polarization</i>	Microwaves stopped at 11:30 H. Polarization obtained is P _{up} = 49.91 and P _{down} = - 42.76. Transverse running will start as soon as the beam is available. - Gunter
8/31/2004 3:30:53 PM	<i>polarization</i>	Polarization reversal by microwaves to P _{up} positive and P _{down} negative started at 12:30 H. -- Gunter
8/31/2004 10:30:05 AM	<i>polarization</i>	After finishing the middle part of transversity running the polarization has been measured: P _{up} = - 43.63 %, P _{down} = 42.42 %. Gunter (WTC)
8/25/2004 11:04:13 AM	<i>polarization</i>	MD from 8:00 to 16:00. Polarization build up continued before going to transverse mode again. At 11:00, P _{up} = -45.69% and P _{dwn} = 46.48% _Jacques
8/23/2004 8:32:05 PM	<i>polarization</i>	At 20:00 the beam was started again. Polarization build up was stopped . P _{up} = -46.15% P _{dwn} = 47.42 % _Jacques

8/22/2004 11:16:35 PM	<i>polarization</i>	At 20:00, beam was stopped. Polarization build up was resumed at 20:38. At 23:00 we have Pup = -39.61% Pdwn = 40.62%. _Jacques
8/21/2004 12:23:52 AM	<i>polarization</i>	Polarization building-up stopped at midnight due to good results of Kaori and Susuke. As there will be a beam interruption on Sunday for 24 hours, polarization building up will be resumed then. Pup = -38.98 Pdwn = 40.73 Jacques_
8/20/2004 6:21:56 PM	<i>polarization</i>	At 6 PM, Pup = -34.28 % and Pdwn = +36.52 %. Building up will continue until noon tomorrow. Jacques_
8/20/2004 5:02:57 AM	<i>polarization</i>	Friday, 5pm. The problem was a shutdown of all water pumps in Hall next to 888 (demineralized and water for diffusion pump). The switch over to spare pumps did not work, everything is restarted now, but experts will investigate tomorrow what was the exact cause of the failure. 4pm: we restart target polarization. C. Marchand, N. Doshita
8/20/2004 2:21:00 AM	<i>polarization</i>	Friday 20, 1am: we lost polarization because of loss of demineralized water. The pumps in Hall next to 888 are stopped, piquet working on it. More news to come. C. Marchand & N. Doshita
8/13/2004 3:44:51 PM	<i>general ...</i>	13.Aug.2004, 15:09, Pol(up)=+50.70,Pol(down)=-43.52, magnet operated to TRANSEVERSE mode, dipole current set at 550A. -- T.Iwata
8/13/2004 4:45:09 AM	<i>polarization</i>	Pol(up)=50.07;Pol(down)=-42.80, VERY DIFFICULT to improve Pol(down). It is recommended that trim coil setting is investigated. 13.Aug.2004, 4;44 --- T.Iwata
8/12/2004 10:24:04 AM	<i>polarization</i>	P(up);+46.5%, P(down)=-39.3%, obtained in 21 hours during MD 12.Aug.2004, --- T.Iwata
8/11/2004 12:07:32 PM	<i>general ...</i>	11.Aug.2004. 10;00 Machine developement start sol.mag -417A-->0A-->+417A start microwave at 11:51 to have opposit config. of Polarization as P(up);+ P(down);- T.Iwata
8/8/2004 5:23:39 PM	<i>NMR</i>	Temp. at NMR rack exceeded 28 deg. which is the upper limit for the alarm in the slow control. Almost everyday, it exceeds the value. We cahnged the upper limit to 28.5 deg. 8.Aug.2004, 17:20 --- T.Iwata
8/8/2004 11:27:37 AM	<i>microwave</i>	11:00 am, 8.aug.2004 EIO-PSs have been turned off for frozen mode until next MD(Aug.10). --- T.Iwata
8/8/2004 1:13:52 AM	<i>polarization</i>	Polarization Up=-50.18, Dwn=+52.63, microwave stop during night shift for safety, T.Iwata
8/7/2004 8:41:58 AM	<i>polarization</i>	Pol. Up=-49.80, Dwn=+51.92, in DNP 7.Aug.2004, T.Iwata
8/5/2004 6:33:29 PM	<i>general ...</i>	Polarization -47.9 % upstream and +50.1 % downstream. Micro power failure stopped the magnet system at 18:10. System recovered after restarting Sun and VME crate. --Jaakko
8/3/2004 4:30:11 PM	<i>polarization</i>	Polarization -39.4 % upstream and +41.1 % downstream. --Jaakko
8/2/2004 6:12:05 PM	<i>polarization</i>	Polarization restarted. --Jaakko
8/2/2004 11:55:46 AM	<i>polarization</i>	Polarization was lost due to pressure drop in demineralized cooling water. Waiting for stable water conditions before repolarizing. -- Jaakko
8/2/2004	<i>magnet</i>	Ramp up solenoid back to nominal field -417 A. Polarization: -50.34 % upstream and +53.24 % downstream. No loss in polarization from

9:54:31 AM		yesterday - the measured values are still the same. --Jaakko
8/1/2004		Big demineralized water leak in SM2. Target solenoid ramped down
4:18:27 PM	<i>general ...</i>	to -100 A for safety. --Jaakko
7/19/2004		The beam stopped around 7:30 in this morning. We measured the
10:05:59 PM	<i>general ...</i>	relaxation time with 0.1 T during morning and restarted polarizing
		with same spin configuration at 15:00. The polarizations are -44.1%
		in the upstream and +48.9% in the downstream at 22:00. No beam
		until thursday at least. Nori
7/16/2004		One of the relay for switching trim coil polarity was burnt. It was
2:04:47 PM	<i>magnet</i>	repaired.14:00 15 Jul. Kaori
7/3/2004		We had to restart NMR Labview because of crash of OLE....
6:45:19 PM	<i>NMR</i>	04/07/03 18h C. Marchand.
6/27/2004		First field rotation was done at 10:10 today morning with
4:32:00 PM	<i>general ...</i>	polarization of -51.0% (upstream) and +53.0% (downstream). by
		Nori
6/25/2004		P(upstream)=-46.30% - P(downstream)=+51.27% Jacques_
12:44:58 PM	<i>polarization</i>	
6/23/2004		Water leak on the NMR rack cooling system. A hose had to be
3:52:11 PM	<i>general ...</i>	changed. Jacques_
		Yesterday we started to resume the polarization build-up around 5
		PM. Since the start we noticed that the upstream cell lacked of
		microwave power. After some investigation it turned out that the
		inpatt diode was not delivering its nominal power. We swapped the
		inpatt diode for the EIO tube. Investigation on the status of the diode
		will be done. At 11:30, P(upstream) = -37.75% P(downstream) = +
		47.91% Jacques_
6/23/2004		Configuration for polarization to start tomorrow will be upstream -
11:31:11 AM	<i>microwave</i>	and downstream + , according to Spokespersons recommendations.
		Jacques_
6/21/2004		Relaxation time studies today, polarization building up will start
6:10:40 PM	<i>polarization</i>	again tomorrow morning. Jacques_
6/21/2004		11:25 - the UPS APC went into alarm. We stopped it and switched it
5:23:47 PM	<i>polarization</i>	on again three times before it "worked" again. Necessary to restart
		FVC578 and reboot VME crate as communications were lost.
6/21/2004		_Jacques
11:29:59 AM	<i>general ...</i>	
6/20/2004		Update at 17:30 upstream P = - 44.25 %, downstream P = + 50.15 %
6:27:00 PM	<i>polarization</i>	(sorry for the typo on the signs of P in the previous message)
		Jacques_
6/20/2004		8:00 Sunday morning, June 20, upstream P = -43.82 % and
8:51:02 AM	<i>polarization</i>	downstream P = -49.40 % . We will keep on polarizing until next
		morning. Jacques_
6/20/2004		Communication between SUN term. and pccodt30 was lost around
12:24:51 AM	<i>software</i>	23:30 on 19/06/04. Re-established around midnight. Jacques_
6/18/2004		NMR rack temperature touches on the higher limit of 27 C every day
3:56:35 PM	<i>NMR</i>	due to hot weather condition. The limit temperature had better
		increase a little. by Nori
6/17/2004		The polarization are -32.8% in the upstream with the inpatt
6:14:05 PM	<i>polarization</i>	microwave system and +31.5% in the downstream at 18:10. by Nori
6/16/2004		18:30 ; just started polarizing with negative (positive) polarization in
6:41:47 PM	<i>polarization</i>	the upstream (downstream) in order to check the new inpatt diode
		microwave system firstly. The configuration of the polarization for

		the physics run will be decided until June 21th (Monday). by Nori
6/16/2004 10:16:53 AM	<i>refrigerator</i>	Started to condense 3He/4He mixture. --Jaakko
6/15/2004 3:22:00 PM	<i>general ...</i>	First check of new impatt diode for the microwave system was done yesterday. The NMR TE data taken from last week was analyzed by Kaori. The result was fine. We have started to remove 4He from MC at 15:00. by Nori
6/14/2004 10:50:47 AM	<i>NMR</i>	We changed the MC temperature from 0.97K to 1.31K on Saturday 16:00 for TE calibration and have just finished TE calib. at 10:30 on Monday with good data. by Nori
6/11/2004 7:13:55 AM	<i>magnet</i>	This morning ~5:00 problem with trim coils current leads helium flow. Necessity to open the main contactor (so, to stop the solenoid) to reset the default. TE calibration restarted at 7:00. - Fabrice
6/10/2004 4:58:52 PM	<i>refrigerator</i>	New problem today from the pump room climatizer. System automatically stopped at 13:45 from the circuit breaker for security, probably due to a peak of intensity. System restarted at 14:00. Circuit checked by technician, nothing wrong discovered. Pumps not affected. - TE calibration still going on. - Fabrice
6/9/2004 8:20:11 PM	<i>refrigerator</i>	Problem of the pump room air conditioning fixed at 19:30. After many tentatives from the technician, a valve on the gas expander was found blocked. Pumps 1 and 4 restarted at 20:15. 4He condensation mode restarted. Pump room temperature slowly back to the normal situation. TE calibration started. - Fabrice
6/9/2004 3:50:55 PM	<i>refrigerator</i>	Problem in pump room climatization. Temperature rised above +23 C. --Jaakko
6/9/2004 11:03:52 AM	<i>refrigerator</i>	Started to condense 4He from 9:30. --Jaakko
6/8/2004 10:40:42 PM	<i>refrigerator</i>	Removing 3He/4He mixture from dilution cryostat. --Jaakko
6/8/2004 6:12:56 AM	<i>general ...</i>	The mixed cooling water was recovered at 5:30. Vacuum diffusion pump was restarted. Magnet back to nominal field 2.506 T with polarization +54.67 % for upstream and -48.13 % for downstream. --Jaakko
6/8/2004 3:29:57 AM	<i>general ...</i>	Vacuum diffusion pump went off at 2:25 during field rotation due to loss of mixed cooling water in the area. Magnet ramped down to +100 A for more safe operation. --Jaakko
6/6/2004 4:37:24 PM	<i>magnet</i>	Yesterday ~15:00 No current delivered for trim coil #11 but PSU was OK. Problem came from the relay box. Problem solved in ~ 1hour by removing and reinstalling the same relay. - Fabrice
6/3/2004 4:50:38 PM	<i>polarization</i>	We were polarizing from 23:20 1 June to 2:00 3 June. Polarization increased: upstream 54.73 % -> 55.53 %, downstream -48.07 % -> -48.62 %. Now we have come back to frozen mode again. (WTC Kaori)
5/25/2004	<i>power</i>	24 May 2004 22:00 Yuri wrote: The total power cut in the PT and spectrometer control rooms. The smoke detector system was activated itself and fierman came soon. Nori was on the shift and he restarted all of the system. Magnet and the pumps were not affected, MW were switched off by the well operated interlock. Software was restarted in short while. Kaori restarted NMR. Unfortunately, we could not restart the temperature measurements of the pumps by unknown reason. Last year it was the same situation with the pump

1:15:17 AM		temperature control. There is a strange offset for all of pump temperatures. The laser infrared thermometer shows the normal temperatures of these pumps but pump-20 which temperature was about 54 C near to the sensor. Its motor nevertheless had about 38 C normal temperature. The final polarization 55.2 % (upstream) and -48.5 % (downstream). We started the frozen mode operation. Speer UP 40.7 kOhm(about 60 mK), 2.5 T field. The cooling water and the pressures are O.K. Regards, we all from the PT-control room.
5/24/2004 6:54:41 AM	<i>polarization</i>	+54.5 % upstream and -47.5 % downstream polarizations have been reached. --Jaakko The polarization of the downstream cell was difficult to improve in the morning. Investigations showed a bad homogeneity of the magnetic field coming from an unstable trim coil power supply. Drift corrected. In addition, we discovered during a short access in the afternoon that the valves of primary water line for the cooling NMR lines and rack were closed. When reopened, the measurements came back to a "normal" situation. At 8:30 PM Upstream:+36.8%, Downstream: -33.4%. Polarization still going on - Fabrice
5/19/2004 8:33:38 PM	<i>polarization</i>	Polarization still going on. Upstream:+32.4% Downstream:-31.3% at 9:30 AM. - Fabrice
5/18/2004 9:04:29 AM	<i>refrigerator</i>	All the He3 sent back in the refrigerator. MX chamber around 50 mK at 8:00AM. Polarization process started at 9:00AM - Fabrice
5/17/2004 6:50:25 PM	<i>refrigerator</i>	The second analysis showed a clean helium gas. Cooling restarted. - Fabrice Yesterday the MX chamber warmed up at 80K. Substantial amount of N2 and O2 found in the trap. Trap cleaned and He4 circulation restarted yesterday around 7:00PM. Difference of pressure between still (5.0E-3) and roots inlet (1.8E-3) seems to be now very small. The trap will be warmed up again today for a new analysis of the gas. If everything OK, we will restart the cooling. -Fabrice
5/17/2004 9:24:53 AM	<i>refrigerator</i>	14th May, 14:00 ; The pressure difference between still and 3He roots inlet was found yesterday. The air which came at the target material loading may be frozen in the heat exchanger in the still puming line. We have started warming DR up to 100K in order to remove the air. By Nori
5/14/2004 2:27:04 PM	<i>refrigerator</i>	
5/12/2004 8:15:20 PM	<i>NMR</i>	TE calib. was finished with good data at 14:00. by Nori
5/10/2004 12:39:21 PM	<i>NMR</i>	The new calibration started from 9th evening at 1.17 K. by Nori
5/8/2004 5:36:06 PM	<i>general ...</i>	BEAM MIGHT BE AVAILABLE ALREADY ON WEDNESDAY 13th OF MAY. Jacques_
5/8/2004 5:33:38 PM	<i>polarization</i>	Second set of TE measurements started yesterday around 2:00 PM with a temperature of 1.25 K. Jacques_
5/6/2004 1:14:08 PM	<i>polarization</i>	TE-calibration was started yesterday evening. --Jaakko
5/5/2004 11:18:48 AM	<i>NMR</i>	Start NMR. Good TE-signals from all coils while filling mixing chamber with liquid helium. --Jaakko
5/5/2004 10:20:04 AM	<i>magnet</i>	Ramp up solenoid field to 2.506 T. --Jaakko
5/1/2004 12:03:51 AM	<i>refrigerator</i>	Start pumping out helium from dilution cryostat for more safe operation. --Jaakko

4/27/2004 3:14:18 PM	<i>magnet</i>	Problem found in solenoid power supply transistor bank. Repair expected on next Tuesday May 4. --Jaakko
4/27/2004 11:40:53 AM	<i>refrigerator</i>	Mixing chamber was filled with liquid helium yesterday. Setup of magnet continues today. --Jaakko
4/23/2004 12:24:45 PM	<i>general ...</i>	Target material was loaded on Thursday April 22 12:00 - 18:00. No leaks to target holder vacuum. All NMR coils and thermometers are ok. --Jaakko