Status of the JINR Scan Station for the OPERA Experiment.

Summary table: Extractions 385, 390-393

Extraction 385:
Event 173520769 *CC*   4 bricks in 2 walls   Bologna

Extraction 390:
Event 178684089 NC   4 bricks, same wall   Japan
Event 178969961 *CC*   1 brick   Salerno (QE like)

Extraction 391:
Event 179264151 *CC*   2 bricks, in 2 walls   Japan
Event 179312944 NC   5 bricks, same wall   Bern
Event 179351516 *CC*   2 bricks, same wall   Japan

Extraction 392:
Event 179673325 *CC*   2 bricks, in 2 walls   Napoli

Extraction 393:
Event 180277945 *CC*   1 brick,   Japan (QE like)
Event 180309253 *CC* *   scintillator event
Event 180400976 *CC*   4 bricks, same wall   Bari   dimuon candidate

Total 10 Events: 7 CC, 2 NC, 1CC in scintillator

Sharing parameters:
· 4 in Japan, 5 in Europe (4 in Italy, 1 Bern) ➔ 14 bricks in Japan, 11 in Europe
   ❖ 1 NC in Japan, 1NC in Europe
   ❖ 1 QE like in Japan, 1 in Europe
   ❖ 2 CC in Japan, 3 CC in Europe
· All CSd are developed at the same time, scanning performed according to the probability lev

Browser title bar: http://www.bo.infn.it/opera/restricted/BrickTracer/BrickTracer.htm - Windows Internet Explorer

Ev-Id	Event #	Brick #	Extr. date	Extr. n.	Prob	Prob rank	Topol.	Whereis	Next Step	CS-Id	CS prod.	Veto-Id	Veto prod.	Brick prod.	DCS XR-Marking	CSD Devel	CSD Sh Towards
	47255558	6291	25/09/07	0			Cosmic	Lab1		?	?				25/9/07 0.00	27/09/07	LNGS
	69268859	9682	25/09/07	0			Cosmic	JP		?	?				26/9/07 0.00	27/09/07	JP
	69268859	9017	25/09/07	0			Cosmic	Wasted		?	?				26/9/07 0.00	27/09/07	LNGS
	69268859	1086	25/09/07	0			Cosmic	JP		?	?				26/9/07 0.00	27/09/07	JP
	82131074	7928	25/09/07	0			Cosmic	Bern		?	?				26/9/07 0.00	27/09/07	LNGS
	133532982	44025	25/09/07	0			Cosmic	JP		?	?				25/9/07 0.00	27/09/07	JP
	133532982	22268	25/09/07	0			Cosmic	Lab1		?	?				25/9/07 0.00	27/09/07	LNGS
	133532982	27814	25/09/07	0			Cosmic	JP		?	?				25/9/07 0.00	27/09/07	JP
	136537769	17439	25/09/07	0			Cosmic	Bern		?	?				26/9/07 0.00	27/09/07	LNGS
	136537769	14504	25/09/07	0			Cosmic	Lab1		?	?				26/9/07 0.00	27/09/07	JP
	143025420	45196	25/09/07	0			Cosmic	Bern		?	?				26/9/07 0.00	27/09/07	LNGS
	143025420	44619	25/09/07	0			Cosmic	Lab1		?	?				26/9/07 0.00	27/09/07	JP
	146841131	30239	25/09/07	0			Cosmic	Lyon		?	?				26/9/07 0.00	27/09/07	LNGS
	146841131	32557	25/09/07	0			Cosmic	Lab1		?	?				26/9/07 0.00	27/09/07	JP
	148389150	34674	25/09/07	0			Cosmic	Lab1		?	?				25/9/07 0.00	27/09/07	LNGS
1C	173520769	29374	09/10/07	1	0,90	1	Baby	Bologna		0290-1	12/06/2007 11.55	0470-1	?	28/6/07 14.06	9/10/07 17.37	10/10/07	LNGS
	173520769	28911	09/10/07	1	0,09	2	Baby	Bologna		0257-1	28/05/2007 9.40	0470-1	?	25/6/07 19.06	9/10/07 17.54	10/10/07	LNGS
	173520769	29351	09/10/07	1	?	3	Baby	Bologna		0290-1	12/06/2007 11.55	0470-1	?		9/10/07 17.56	10/10/07	LNGS
	173520769	**29367**	**09/10/07**	**1**	**?**	**4**	**Baby**	**SA**	**Back Det**	**0289-1**	**12/06/2007 10.35**	**0470-1**	**?**		**9/10/07 19.22**	**10/10/07**	**LNGS**
1N	178684089	36564	09/10/07	1	0,67	1	NC	JP		0104-1	27/11/2006 15.08	0470-1	?		9/10/07 17.05	10/10/07	JP
	178684089	36565	09/10/07	1	0,13	2	NC	JP		0104-1	27/11/2006 15.08	0470-1	?		9/10/07 16.30	10/10/07	JP
	178684089	**32765**	**09/10/07**	**1**	**0,08**	**3**	**NC**	**SA**	**Back Det**	**0319-1**	**20/06/2007 17.25**	**0470-1**	**?**		**9/10/07 16.50**	**10/10/07**	**JP**
	178684089	**36539**	**09/10/07**	**1**	**0,05**	**4**	**NC**	**SA**	**Back Det**	**0107-1**	**28/11/2006 11.35**	**0470-1**	**?**		**9/10/07 16.53**	**10/10/07**	**JP**
2C	178969961	22530	09/10/07	1	0,99	1	CC	Salerno		0263-1	29/05/2017 11.00	0470-1	?		9/10/07 19.17	10/10/07	LNGS
3C	179264151	20122	09/10/07	1	0,83	1	CC	JP		0240-1	14/05/2007 17.32	0470-1	?	25/5/07 21.05	9/10/07 18.22	10/10/07	JP
	179264151	20227	09/10/07	1	0,17	2	CC	JP		0240-1	14/05/2007 17.32	0470-1	?	28/5/07 6.05	9/10/07 18.30	10/10/07	JP
2N	179312944	11847	09/10/07	1	0,22	1	NC	Bern		0163-1	12/12/2006 17.00	0470-1	?		9/10/07 18.13	10/10/07	LNGS
	179312944	11845	09/10/07	1	0,15	2	NC	Bern		0163-1	12/12/2006 17.00	0470-1	?		9/10/07 18.16	10/10/07	LNGS
	179312944	11669	09/10/07	1	0,14	3	NC	Bern		0157-1	12/12/2006 10.59	0470-1	?		9/10/07 18.10	10/10/07	LNGS
	179312944	**12865**	**09/10/07**	**1**	**0,07**	**4**	**NC**	**SA**	**CS: scan**	**0153-1**	**11/12/2006 17.00**	**0470-1**	**?**		**9/10/07 19.27**	**10/10/07**	**LNGS**
	179312944	**8954**	**09/10/07**	**1**	**0,07**	**5**	**NC**	**SA**	**CS: scan**	**0176-1**	**14/12/2006 10.50**	**0470-1**	**?**		**9/10/07 19.28**	**10/10/07**	**LNGS**
4C	179351516	1429	09/10/07	1	0,85	1	CC	JP		0070-1	15/11/2006 11.10	0470-1	?	?	9/10/07 16.57	10/10/07	JP
	179351516	1194	09/10/07	1	0,08	2	CC	JP		0057-1	26/10/2006 18.28	0470-1	?	?	9/10/07 17.03	10/10/07	JP
5C	179673325	4554	09/10/07	1	0,83	1	CC	Napoli		0072-1	15/11/2006 15.55	0470-1	?	8/3/07 11.03	9/10/07 16.40	10/10/07	LNGS
	179673325	4676	09/10/07	1	0,16	2	CC	Lab1		0113-1	29/11/2006 16.30	0470-1	?		9/10/07 16.45	10/10/07	LNGS
6C	180277945	33540	09/10/07	1	0,98	1	CC	JP		0315-1	19/06/2007 17.34	0470-1	?	12/7/07 11.07	9/10/07 19.15	10/10/07	JP
7C	180400976	53706	09/10/07	1		1	DiMu	Bari		0420-1	10/08/2007 15.44	0470-1	?	?	9/10/07 18.52	10/10/07	LNGS
	180400976	53729	09/10/07	1		2	DiMu	Bari		0420-1	10/08/2007 15.44	0470-1	?		9/10/07 19.04	10/10/07	LNGS
	180400976	**53730**	**09/10/07**	**1**		**3**	**DiMu**	**SA**	**Back Det**	**0420-1**	**10/08/2007 15.44**	**0470-1**	**?**		**9/10/07 19.08**	**10/10/07**	**LNGS**
	180400976	**53511**	**09/10/07**	**1**		**4**	**DiMu**	**SA**	**Back Det**	**0429-1**	**?**	**0470-1**	**?**		**9/10/07 19.11**	**10/10/07**	**LNGS**
3N	**180560034**	**16919**	**16/10/07**	**2**	**0,07**	**1**	**NC**	**SA**	**CS: scan**	**0209-1**	**10/04/2007 15.33**				**17/10/07 10.06**	**17/10/07**	**JP**
	180560034	**16969**	**16/10/07**	**2**	**0,17**	**2**	**NC**	**SA**	**CS: scan**	**0208-1**					**30/10/07 0.00**		
	180560034	**14850**	**16/10/07**	**2**	**0,10**	**3**	**NC**	**SA**	**CS: scan**	**0144-1(?)**					**30/10/07 0.00**		
	180560034	16918	16/10/07	2	0,58	4	NC	SA	BR: process	0209-1					30/10/07 0.00		
8C	181022331	5420	16/10/07	2	0,64	1	CC	JP		0132-1	05/12/2006 9.50				17/10/07 10.42	17/10/07	JP
	181022331	4811	16/10/07	2	0,34	2	CC	SA	Wait								
	181022331	5842	29/11/07	5			CC	SA	CS: dev	(?!)	?				30/11/07 0.00		

Tabs: Bricks / Events / Info

Salerno scan station

Labels: Z stage, camera, arm, objective, XY stage
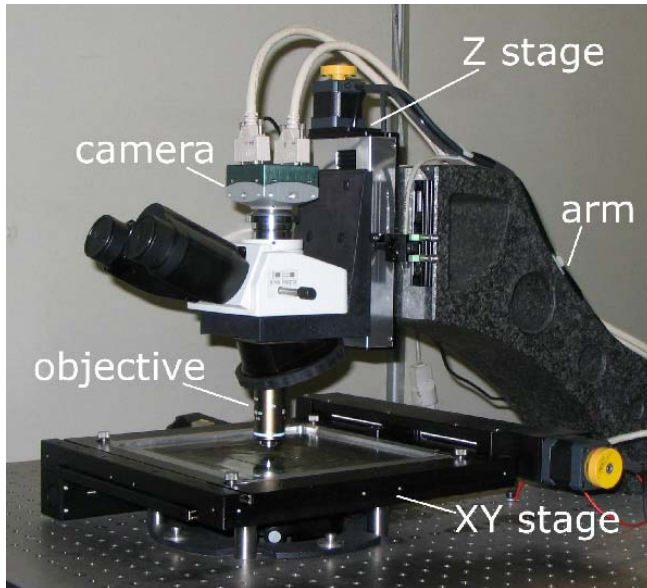
Bern scan station

ESS:
Running up to ~22 cm^2/h
Efficiency ~90%

ESS in Dubna:

- All components of system are bought , delivery is expected on next week.

- Climatic system and granite table are bought too.

- Supporting elements are under manufacturing.

- Building up of a room suitable for appropriate work of ESS should be completed till April-May.

- For all tests, mechanics and software installation and system adjustment we need up to 2 month.

R&D system:

-Optic system is ready.

-Development of mechanics and electronics for stage is completed (measuring accuracy of system is 0.1mkm, positioning accuracy is 10mkm, time of moving for one field of vision is about 100ms).

-Design of high speed camera and DSP block are completed. Rate of camera is up to 1kHz for 512x640 pixels. DSP processor data processing time is 0.75ms per frame.

-Now we have to concentrate our efforts on 1Gb Ethernet interface for DSP board.
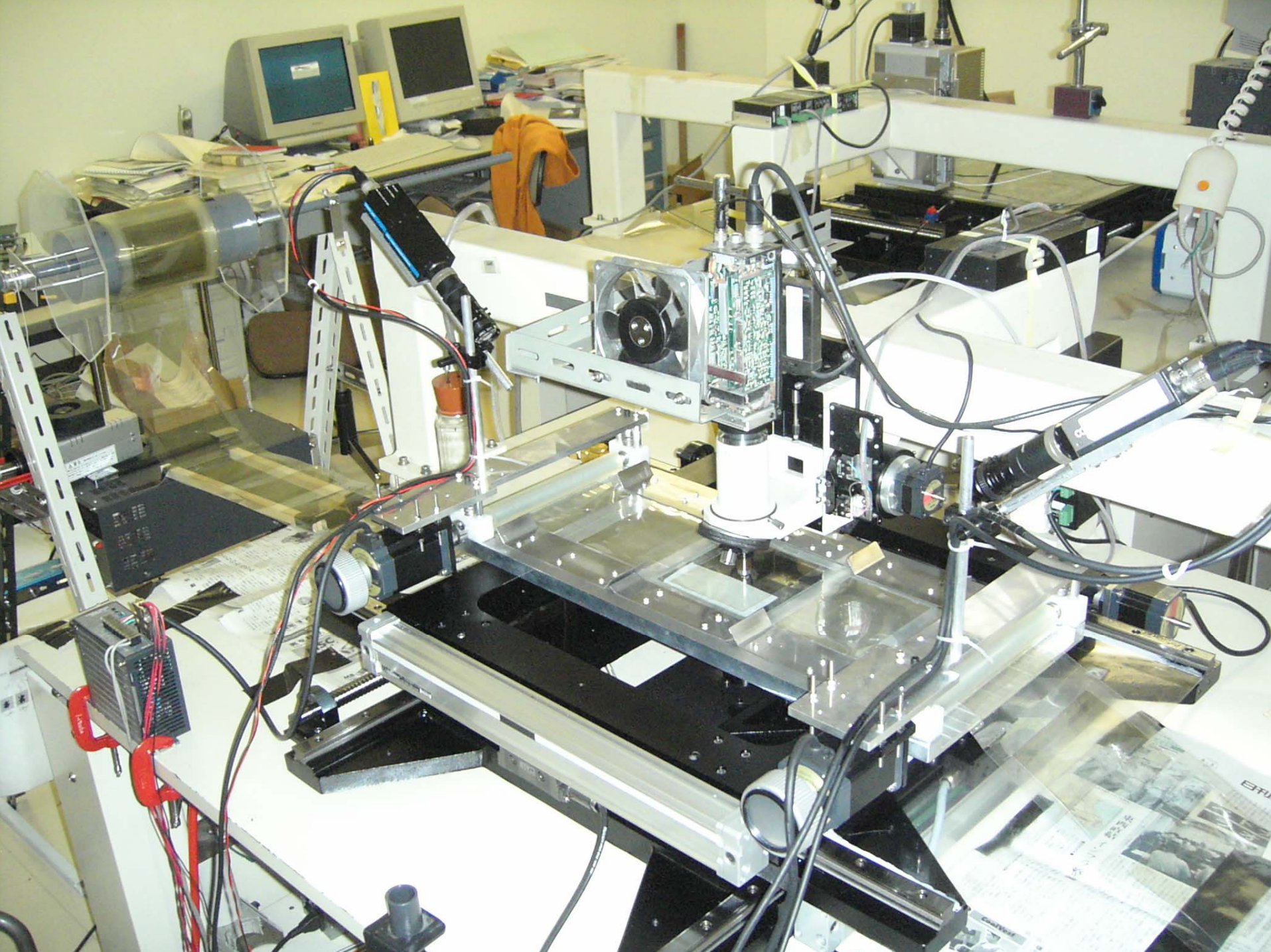
SUTS STATUS at 2007 Sept. 02

- **SUTS 1**   Running with ~20 cm^2/h
- **SUTS 2**   Running with ~50cm^2/h (Max:70)
- **SUTS 3**   Will start running until the end of _this September_ with ~100 cm^2/h (Max:140)
    Total ~150cm^2/h for this RUN.

- **SUTS 4**   Plan to start running in _this October_ with the same speed of SUTS 3.
- **SUTS 5**   Plan to start running in _this Nov._ with the same speed of SUTS3.