

Towards a Network of Atmospheric Cherenkov Detectors VII

For an international harmonization on developments and exploitation
of ground-based γ -ray detectors in association with space laboratories

April 27-29 2005

École Polytechnique, Palaiseau (France)

Fourth circular

1 Conference programme

The conference programme is given in tables 1 to 4. Invited talks are indicated in bold characters. All sessions are plenary except during the first part of the morning of April 29 in which there will be two parallel sessions. Speakers should note that the discussion time (about 5 minutes per talk) is included in the schedule of tables 1 to 4. Poster contributions are listed with their serial number in table 5.

2 Instructions for oral presentations

Presentations will be displayed on a Windows PC. The corresponding files should be given in **PDF, PowerPoint or Open Office** format. The programme will be managed by the 'CDS Agenda' web application at the following address:

<http://polywww.in2p3.fr/services/cdsagenda/fullAgenda.php?ida=a0565>

Speakers will be given a password by e-mail to upload files into the CDS Agenda. If you are not familiar with CDS Agenda, please send your questions to the webmaster¹. Of course, an overhead projector will also be available.

3 Instructions for poster presentations

Posters should be in A0 (84 cm width \times 120 cm height) or smaller formats. Locations are attributed according to the serial number indicated in table 5. Poster sessions will take place during breaks and immediately after lunch (13:15-14:00).

4 Practical information

4.1 Transportation to Ecole Polytechnique

From Paris, École Polytechnique is accessible through the Express Regional Metro (RER) B line. One has to stop at the Massy-Palaiseau station, (about 26 minutes from Denfert-Rochereau with the RER-B line, direction Massy-Palaiseau, or Orsay, or St-Rémy-les-Chevreuse). On the platform, the stations at which the next train stops are indicated on a special board. Check that your train stops at Massy-Palaiseau. Figure 1 shows a map of the Massy-Palaiseau station where participants will find special buses chartered by the conference to reach École

¹e-mail: webmaster@poly.in2p3.fr

“Towards a Network of Atmospheric Cherenkov Detectors VII”		
Palaiseau, April 27-29, 2005		
WEDNESDAY APRIL 27 (MORNING)		
Time	Speaker	Title
9:30 - 9:45	M. ROBIN Vice-President for Research École Polytechnique	Welcome Address
9:45 - 10:15 S1	T. C. WEEKES Smithsonian Astrophysical Observ.	VERITAS: Status report
10:15 - 10:45 S1	M. MORI ICRR Tokyo	CANGAROO III: Status report
10:45 - 11:15	COFFEE BREAK	
11:15 - 11:45 S1	M. MARIOTTI INFN Padova	MAGIC: Status report
11:45 - 12:15 S1	W HOFMANN MPIK Heidelberg	HESS I: Status report
12:15 - 12:35 S1	V. SINITSYNA Lebedev Inst. Moscow	SHALON: Status report
12h35 - 14h00	LUNCH	
WEDNESDAY APRIL 27 (AFTERNOON)		
Time	Speaker	Title
14:00 - 14:30 S1	David SMITH CENBG & SLAC	Sampling arrays
14:30 - 14:45 S1	P. MARLEAU UC Davis	Observations of intermediate energy γ -rays at CACTUS
14:45 - 15:15 S1	G. SINNIS LANL	Experiments with a large field-of-view
15:15 - 15:45 S3	H. VÖLK MPIK Heidelberg	Shell-type supernova remnants
15:45 - 16:15	COFFEE BREAK	
16:15 - 16:45 S3	O. DE JAGER North-West Univ. (South Africa)	Pulsars and plerions
16:45 - 17:05 S3	Alice HARDING GSFC	1-100 GeV emission of millisecond pulsars
17:05 - 17:35 S3	P. COPPI Yale Univ.	AGN, Blazars and microquasars
17:35 - 18:05 S3	C. DERMER NRL	Gamma-ray bursts
18:30	WELCOME COCKTAIL	

Table 1: Conference programme: Wednesday April 27

“Towards a Network of Atmospheric Cherenkov Detectors VII”		
Palaiseau, April 27-29, 2005		
THURSDAY APRIL 28 (MORNING)		
Time	Speaker	Title
9:00 - 9:30 S3	A. GOLDWURM CEA/DAPNIA Saclay	Galactic Centre Region
9:30 - 10:00 S3	J. PAUL CEA/DAPNIA Saclay	New space missions beyond GLAST
10:00 - 10:20 S3	G. PÜHLHOFER Heidelberg	Present and future prospects for broadband observations of VHE γ -rays
10:20 - 10:30 S3	E. BERNARDINI DESY-Zeuthen	Multi-messenger studies with AMANDA-ICE CUBE and strategies
10:30 - 11:00	COFFEE BREAK	
11:00 - 11:30 S4	F. AHARONIAN MPIK Heidelberg	Science goals vs. Energy ranges
11:30 - 12:00 S4	S. SWORDY Univ. of Chicago	Beyond VERITAS
12:00 - 12:30 S4	T.YOSHIKOSHI ICRR Tokyo	Beyond CANGAROO
12h30 - 14h00	LUNCH	
THURSDAY APRIL 28 (AFTERNOON)		
Time	Speaker	Title
14:00 - 14:30 S4	M. TESHIMA MPI Munich	MAGIC 2 and the future vision
14:30 - 15:00 S4	M. PUNCH APC Paris	HESS II
15:00 - 15:15 S4	W. HOFMANN MPIK Heidelberg	Performance limits of Cherenkov telescopes
15:15 - 15:45 S4	B. GIEBELS LLR Palaiseau	What GLAST will bring to and request from VHE astrophysics
15:45 - 16:15	COFFEE BREAK	
16:15 - 16:35 S4	R. KOUL BARC Mumbai	MACE gamma-ray telescope
16:35 - 17:05 S2	M. DE NAUROIS LPNHE Paris	Analysis methods for IACT's
17:05 - 17:35 S5	J.-C. VANEL LLR Palaiseau	New photodetectors & associated electronics
17:35 - 17:55 S5	R. MIRZOYAN MPI Munich	Tagging single muons by ultra-fast timing in air Cherenkov telescopes

Table 2: Conference programme: Thursday April 28

“Towards a Network of Atmospheric Cherenkov Detectors VII”		
Palaiseau, April 27-29, 2005		
FRIDAY APRIL 29 (MORNING)		
PARALLEL SESSION S2		
Time	Speaker	Title
9:00 - 9:25 S2	W. BENBOW MPIK Heidelberg	Cosmic Ray Background Rejection & Spectral Analysis Techniques
9:25 - 9:50 S2	M. LEMOINE-GOUMARD LLR Palaiseau	Advanced analysis methods for stereoscopic systems
9:50 - 10:15 S2	J. HINTON MPIK Heidelberg	Background modeling in ground-based Cherenkov astronomy
10:15 - 10:40 S2	M. GAUG IFAE Barcelona	Results from the MAGIC calibration system
PARALLEL SESSION S5		
Time	Speaker	Title
9:00 - 9:20 S5	H. BARTKO MPI Munich	Test of a prototype multiplexed fiber optic ultra-fast FADC acquisition system
9:20 - 9:40 S5	N. TURINI Siena & INFN Pisa	The domino system: a compact low power sampler data readout for ACTs
9:40 - 10:00 S5	P. GORET CEA/DAPNIA Saclay	SAM a new ASIC for the front-end emlectronics of HESS II
10:00 - 10:20 S5	M. TLUCZYKONT LLR Palaiseau	A second level trigger for HESS II
10:20 - 10:40 S5	G. HERMANN MPIK Heidelberg	A smart pixel camera for future Cherenkov telescopes
10:40 - 11:00	COFFEE BREAK	
PLENARY SESSION		
11:00 - 11:20 S5	M. HAYASHIDA MPI Munich	Development of HPDs with a 18 mm diameter GaAsP photocathode
11:20 - 11:40 S5	N. OTTE MPI Munich	The silicon photomultiplier Status of the development
11:40 - 11:55 S5	D. PELLION CESR Toulouse	APD photodetectors in the Geiger photon counter mode
11:55 - 12:15 S4	J. BUCKLEY Washington Univ.	Design considerations for low-energy threshold ACTs
12:15 - 12:35 S4	I. DE LA CALLE Univ. of Oxford	Performance study of a wide-angle camera for ACT's

Table 3: Conference programme: Friday April 29 (morning)

FRIDAY APRIL 29 (AFTERNOON)		
Time	Speaker	Title
14:00 - 14:20 S4	A. SMITH Univ. of Maryland	Mini High Altitude Water Cherenkov experiment
14:20 - 14h40 S4	D. KIEDA Univ. of Utah	Wide field of view surveying in next generation GeV/TeV observatories
14:40 - 15:00 S4	V. VASSILIEV UCLA	IACT array for the study of VHE transients in the Universe
15:00 - 15:20 S4	D. HORNS IfAA Tübingen	Performance of a prototype system of Cherenkov telescopes at high altitude
15:20 - 15:40 S6	H. KORNMAYER ISC	Towards a virtual observatory for VHE γ -ray astronomy
15:40 - 16:10	COFFEE BREAK	
16:10 - 16:40 S6	R. CAMERON SLAC	Data archiving and formatting in GLAST
16:40 - 17:15 S6	PANEL DISCUSSION The evolution of VHE Astronomy and Networking Discussion leader: R. ONG (UCLA)	
17:15 - 17:30	S. KATSANEVAS IN2P3/CNRS	The point of view of IN2P3

Table 4: Conference programme:Friday April 29 (afternoon)

Polytechnique in about 10 minutes. Buses will leave Massy-Palaiseau at 8:30 a.m. and 8:40 a.m. on April 27, 28 and 29 in front of the **SNCF** station. However, if you are coming from Paris, RER trains arrive at the RATP station. On the platform, walk in the same direction as the RER train was going, climb the stairways in front of you and, at the top, turn **RIGHT** and follow the footbridge all the way down to the SNCF station (see map in figure 1). Buses will be waiting for you on the parking lot in front of the SNCF station.

Regular public buses (Trans-Essonne 91-06) are also available for those who miss the conference buses. In this case, the bus stop is in front of the **RATP** station. Therefore, at the top of the stairways, you should turn **LEFT** and go directly to the exit. The bus stop is on the right on the parking lot (see map in figure 1). The fare can be paid cash to the driver.

For the more sporty, one may also continue a few more stops on the RER-B line to the Lozère station and take the 200+ steps up the slope to the plateau where the École Polytechnique is situated. At Lozère station, take the underground passage across the railway and follow the street facing the exit and going up the slope for about 100 m. Then, take the path prolongating the street, eventually followed by steps. At a bifurcation, a bit later, **TURN LEFT** and use the more irregular steps. It takes about 15-20 minutes to get from Lozère to the plateau. At the entrance of the campus, the gate is unlocked in day-time and evenings; it is locked during the night from 1:15 a.m. to 5:00 a.m. At this point, you can find your position on the map of figure 2.

The regular buses (Trans-Essonne 91-06) should be used in the evening to reach the Massy-

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POSTER SESSIONS

Serial number	Session	Presenter name	Title (shortened)
1	S1	A. Alaverdian	SHALON observations (Tycho-Brahe Geminga)
2	S1	S. Borisov	SHALON observations (Cygnus X3)
4	S1	E. Brion	CELESTE observations (Mkn 501)
5	S1	F. Piron	CELESTE observations (galactic diffuse emission)
6	S1	S. Sajjad	CELESTE observations (Dark matter in M31)
7	S1	V. I. Sinitsyna	SHALON observations (VHE neutrinos)
8	S1	R. Wagner (2)	MAGIC observations (Crab nebula)
9	S1	D. Horns	Joint observations of H.E.S.S. and MAGIC
10	S2	F. Göbel	Absolute calibration of MAGIC (with μ 's)
11	S2	R. Le Gallou	Atmospheric monitoring (HESS)
12	S2	M. Lemoine-Goumard	Hadronic background subtraction (3D model)
13	S2	R. Mirzoyan	Precise measurement of the reflectivity of the reflector
14	S2	E. Ona-Wilhelmi	Periodicity searches with VHE γ -rays
15	S2	D. Petry (1)	A method to improve time coverage and sensitivity
16	S2	J. Rico	MAGIC sensitivity prospects for a sky scan
17	S3	V. Bosch-Ramon	Microquasars hadronic jets and VHE γ -rays
18	S3	I. Grenier	The GeV sky new interstellar emission & old sources
19	S3	L. Latronico	Status of development of the GLAST LAT
20	S3	J. McEnery	Capabilities of GLAST LAT for blazar studies
21	S3	A. Neronov	Modeling the TeV emission of the Galactic Centre
22	S3	D. Petry (2)	The GLAST Science Support Center
23	S3	J.-P. Vialle	Detection and measurement of γ -rays with AMS-02
24	S4	I. Jung	STAR a next generation telescope
25	S4	D. Kieda	Intrinsic limitations of ACTs
26	S4	A. Konopelko (1)	Stereo Array of 30 m IACTs
27	S4	A. Konopelko (2)	Analysis methods with a 30 m IACT ($E < 100$ GeV)
28	S4	A. Konopelko (3)	Altitude effect in Cherenkov light flashes (low E γ s)
29	S5	H. Bartko	FADC pulse reconstruction (MAGIC)
30	S5	A. Biland	The active mirror control of MAGIC
31	S5	J. Buckley	Low energy threshold ACT (instrumentation)
32	S5	P. Chadwick	Aluminium honeycomb mirrors for ACTs
33	S5	D. Dorner (1)	A concept for data management and processing
34	S5	D. Dorner (2)	MARS a framework for event-based analysis
35	S5	J. Holder	Intensity interferometry with ACTs
36	S5	R. Mirzoyan	Optical system for a wide-field imaging camera
37	S5	K. Mizobuchi	The observation of gamma-ray bursts with MAGIC
38	S5	L. Peruzzo	Light-weight all-Al mirrors for the MAGIC telescope
39	S5	N. Turini	GRB alert system for the MAGIC telescope
40	S5	R. Wagner (1)	A scalable drive system concept for future projects

Table 5: Conference programme: poster sessions

Palaiseau station when leaving École Polytechnique. The “Lozère path” (downwards) provides an alternative way of reaching the RER B line directly in 15 minutes.

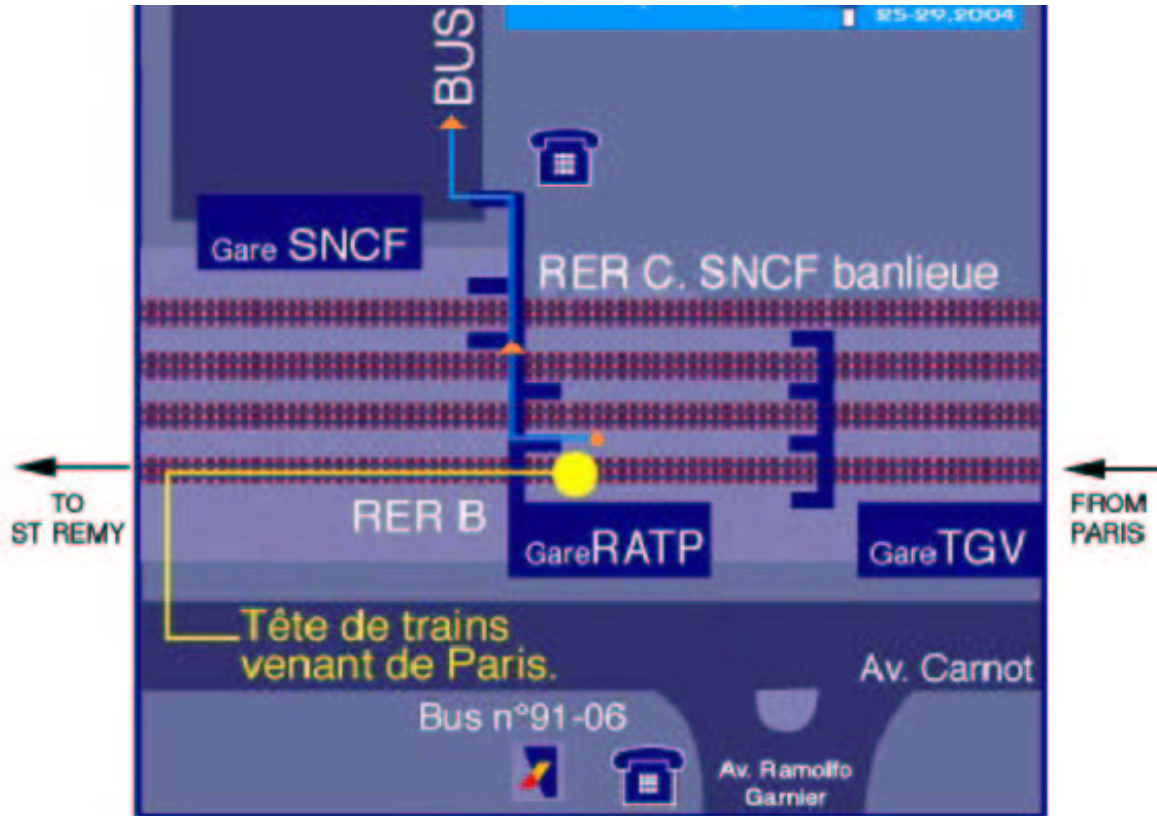


Figure 1: Map the Massy-Palaiseau station.

4.2 Access to the auditorium on the site of Ecole Polytechnique

A map of École Polytechnique is shown in figure 2. Signposts of the conference will be arranged at different places on the campus.

The conference buses will leave you in Cour Vaneau in front of the main entrance giving access to the main hall. Most of the sessions will take place in “**Amphithéâtre ARAGO**” (access in the centre of the hall). The conference secretariat in the hall will be open at 8:30 on April 27.

If you arrive by the public bus (Trans-Essonne 91-06), we recommend to get down at the bus stop “Laboratoires” (on the left of the map). Then follow the median road facing the laboratories, cross the central porchway and enter building 7 through the door on your right, go to the next floor up and there, turn right and follow the corridor leading to the main hall and to the auditoriums.

If you arrive by the Lozère path, cross the ring road and follow the path passing close to the semi-circular buildings in order to reach building 8 on the map; inside, follow the arrows indicating the conference until you reach the exit of building 7. Take the staircase facing the

exit and go to the next floor up. There, turn right and follow the corridor leading to the main hall and to the auditoriums.

4.3 Lunches

Lunches will be served in the restaurant of École Polytechnique. Participants will be provided with tickets included in the conference documents.

4.4 Lodging in École Polytechnique

The guest house (“Hotel” on the map) is located in the same building as the restaurant on the first floor. A direct access is provided by an outside staircase on the western side of the building (see map in figure 2). The reception desk is open from 10:00 a.m. to 11:30 a.m. and from 12:30 a.m. to 4:15 p.m. from monday to friday. Payment should be done only by cheque or cash; credit cards are not accepted. Please, note that exceptionally the reception will be closed on friday April 29 afternoon.

People arriving in periods in which the reception desk is closed should take their keys from the “Salle de permanence” (or “Service Protection Incendie et Sécurité”, SPIS) in building 20 (see the map). From there, you can reach the hotel by crossing building 22 and “Cour Ferrié”.

Breakfast is served in the restaurant from 7 a.m. to 8:30 a.m.; the cost is 2.35 Euros. Dinner is served from 5:45 p.m. to 7:15 p.m.; the cost is 10 Euros. It is possible to pay cash; an alternative way is to buy tickets in advance at the central cash between 11:30 a.m. and 2:00 p.m.

4.5 Social events

A welcome cocktail will be organized in the “Salon d’Honneur” of École Polytechnique after the last session on wednesday April 27 at 6:30 p.m. The conference dinner will take place in the evening of thursday April 28 in Hotel Concorde-Lafayette in the “Palais des Congrès” (metro station Porte Maillot, nearby the Champs Élysées).

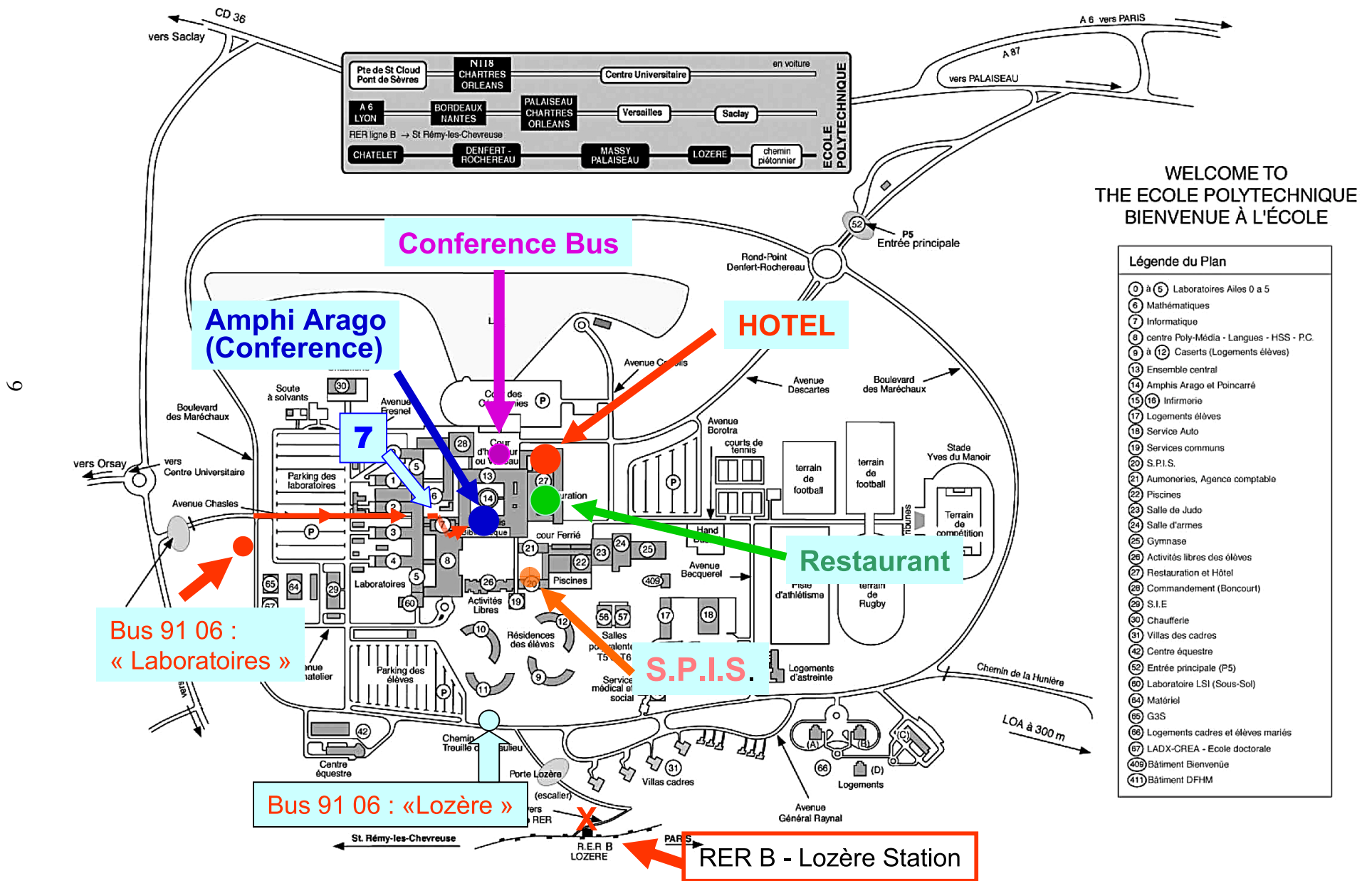


Figure 2: Map of École Polytechnique.