

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)

CONFERENCE PROGRAMME

“Towards a Network of Atmospheric Cherenkov Detectors VII”		
Palaiseau, April 27-29, 2005		
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	
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: April 27

“Towards a Network of Atmospheric Cherenkov Detectors VII”		
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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	
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: April 28

“Towards a Network of Atmospheric Cherenkov Detectors VII”		
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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: April 29 (morning)

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: April 29 (afternoon)

“Towards a Network of Atmospheric Cherenkov Detectors VII”

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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	H. Manseri	Absol. Calib ⁿ of ACTs with Rayleigh Scatt ^d LASER Light
14	S2	R. Mirzoyan	Precise measurement of the reflectivity of the reflector
15	S2	E. Ona-Wilhelmi	Periodicity searches with VHE γ -rays
16	S2	D. Petry (1)	A method to improve time coverage and sensitivity
17	S2	J. Rico	MAGIC sensitivity prospects for a sky scan
18	S3	V. Bosch-Ramon	Microquasars hadronic jets and VHE γ -rays
19	S3	I. Grenier	The GeV sky new interstellar emission & old sources
20	S3	L. Latronico	Status of development of the GLAST LAT
21	S3	J. McEnery	Capabilities of GLAST LAT for blazar studies
22	S3	A. Neronov	Modeling the TeV emission of the Galactic Centre
23	S3	D. Petry (2)	The GLAST Science Support Center
24	S3	J.-P. Vialle	Detection and measurement of γ -rays with AMS-02
25	S4	I. Jung	STAR a next generation telescope
26	S4	D. Kieda	Intrinsic limitations of ACTs
27	S4	A. Konopelko (1)	Stereo Array of 30 m IACTs
28	S4	A. Konopelko (2)	Analysis methods with a 30 m IACT (E<100 GeV)
29	S4	A. Konopelko (3)	Altitude effect in Cherenkov light flashes (low E γ s)
30	S5	H. Bartko	FADC pulse reconstruction (MAGIC)
31	S5	A. Biland	The active mirror control of MAGIC
32	S5	J. Buckley	Low energy threshold ACT (instrumentation)
33	S5	P. Chadwick	Aluminium honeycomb mirrors for ACTs
34	S5	D. Dorner (1)	A concept for data management and processing
35	S5	D. Dorner (2)	MARS a framework for event-based analysis
36	S5	J. Holder	Intensity interferometry with ACTs
37	S5	R. Mirzoyan	Optical system for a wide-field imaging camera
38	S5	K. Mizobuchi	GRB alert system for the MAGIC telescope
39	S5	L. Peruzzo	Light-weight all-Al mirrors for the MAGIC telescope
40	S5	R. Wagner (1)	A scalable drive system concept for future projects

Table 5: Conference programme: poster sessions