

# KET Strategie-Workshop 2010

Dortmund, 25./26.10.2011

## Motivation:

- Aktualisierung der **KET Broschüre** von 2002
- Neuauflage der „**European Strategy Group of Council**“:
  - Start in 2011
  - im Hinblick auf das CERN „**Geographical and Scientific Enlargement**“ (s. Council Bericht Sa. Morgen)
  - Entschluss und **Präsentation im Sept. 2012** in Brüssel
- Wunsch der deutschen Council Delegierten, die Perspektiven der deutschen HEP Community zu kennen.

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Montag, 25.10.2011

11:00 - 11:45 Uhr	Eröffnung; Begrüssung (S. Bethke, B. Spaan)
11:15 - 11:45 Uhr	Theorie I: die grossen Fragen und Themen der TP in der Zukunft (W. Buchmüller, Hamburg)
11:55 - 12:20 Uhr	Perspektiven der Hadron-Collider Physik (Th. Müller, Karlsruhe)
12:30 - 13:30 Uhr	----- Mittagsbuffet (catered) -----
13:30 - 13:50 Uhr	LHC upgrade (N. Wermes, Bonn)
14:00 - 14:20 Uhr	Linear Colliders I: ILC (K. Desch, Bonn)
14:30 - 14:50 Uhr	Linear Colliders II: CLIC (M. Hauschild, CERN)
15:00 - 15:20 Uhr	Neutrino-Physik an Beschleunigern (A. Stahl, Aachen)
15:30 - 15:50 Uhr	Langzeitstrategie des CERN (R. Heuer, CERN)
16:10 - 16:30 Uhr	----- Kaffeepause (Räumen des Plenarsaals)
16:30 - 1800 Uhr	<input type="checkbox"/> A. Nichtbeschleuniger-Teilchenphysik (Stefan Schoenert, MPK Hei
	<input type="checkbox"/> B. Präzisionsexperimente an (Niederenergie-)Beschleunigern (Step
	<input type="checkbox"/> C. neue Beschleuniger-Technologien (Allen Caldwell, MPP Münche
18:00 - 19:00 Uhr	<input type="checkbox"/> D. Neue Experimente unter Ausnutzung der DESY Infrastruktur (E. Elsen, DESY Hamburg; A. Schöning, Heidelberg)
	Gambrinus-Forum: Kolloquiumsvortrag Heuer

Dienstag, 25.10.2011

8:00 - 9:00 Uhr	KET Sitzung (closed session)
9:00 - 9:20 Uhr	Dark Matter Searches (Uwe Oberlack, Mainz)
9:30 - 9:50 Uhr	Theorie II: Aufstellung der TP-Theorie in D (Th. Mannel, Siegen)
10:00 - 10:30 Uhr	----- Kaffee -----
10:30 - 10:50 Uhr	Perspektiven der b-Physik (Ch. Kiesling, MPP München)
11:00 - 11:20 Uhr	Astro-Teilchenphysik (KAT-Präsentation) (Ch. Spiering, DESY - Zeuthen)
11:30 - 11:50 Uhr	Kern- und Hadronen-Physik (KHUK-Präsentation) (J. Wessels, Münster)
12:00 - 13:00 Uhr	----- Mittagsbuffet (catered) -----
13:00 - 13:20 Uhr	Zusammenfassung Parallelsitzung A (Nichtbeschleuniger-TP) (Stefan Schoenert, MPK Heidelberg)
13:30 - 13:50 Uhr	Zusammenfassung Parallelsitzung B (Präzisionsexperimente) (S. Paul, TU München)
14:00 - 14:20 Uhr	Zusammenfassung Parallelsitzung C (Beschl.-Technologien) (Allen Caldwell, MPP München)
14:30 - 14:50 Uhr	Zusammenfassung Parallelsitzung D (Experimente am DESY) (E. Elsen, DESY , oder A. Schöning, Heidelberg)
15:00 - 15:30 Uhr	workshop summary
15:30 - 16:00 Uhr	----- Kaffee -----
16:00 - 18:00 Uhr	KET Sitzung (closed session)

## **Parallelsitzung A: Nichtbeschleuniger-Teilchenphysik**

- |  |                 |
|--|-----------------|
| A large solid state TPC with Cobra                       | - K. Zuber      |
| A one ton Ge experiment: GERDA&Majorana                  | - B. Majorovits |
| Proton decay and neutrino properties with Lena           | - L. Oberauer   |
| Direct neutrino mass search beyond 100 meV               | - C. Weinheimer |
| Direct DM search: techniques & multi-target DM signature | - J. Jochum     |

## **Parallelsitzung B: Präzisionsexperimente an Nierenergie-Beschleunigern**

- Klaus Kirch: Teilchenphysik mit langsamen Müonen  
Jochen Walz: Teilchenphysik mit Antiprotonen  
Peter Fierlinger: Teilchenphysik mit Neutronen und EDM Messungen im allgemeineren  
Gruppe Blaum: Teilchenphysik mit Ionen  
Gruppe FZJ: EDM des Protons/Deuterons an COSY

## **Parallelsitzung C: Neue Beschleuniger-Technologien**

- A. Caldwell Introduction and Muon Collider R&D  
A. Pukhov Theory/simulation of Laser and Beam driven PWA  
S. Karsch Experimental overview in Laser driven PWA  
G. Xia Proton beam driven PWA  
F. Zimmermann Outlook for PWA experiments

## **Parallelsitzung D: Neue Experimente unter Ausnutzung der DESY Infrastruktur**

- |  |               |
|--|---------------|
| e+e- Z-factory using the HERA infrastructure                               | Moortgat-Pick |
| Perspective on the ep and eA physics at DESY                               | Kowalski      |
| (Ultra-)Light Particles Beyond the SM: Case for the New Intensity Frontier | Ringwald      |

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KET-JV 2010

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  - Social security plans for CERN employees (e.g. pension fund)

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**revised MTP approved by Council in Sept. 2010**



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- Geographical Enlargement:
  - general **opening of full membership to all nations**  
(subject to bilateral interest, and to specific stepwise procedure)
  - new definition of **associate membership** : more rights & duties  
(annual fee for ass. members: 10% of equiv. membership fee)
  - special entry contribution for new members  
(~1.25 annual fees; details t.b.d.)
  - useage of new fees t.b.d. (reduction of current ms fees and/or increase of budget.)
  - t.b.d.: governance & procedure for pending applications  
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- Scientific Enlargement:
  - to be worked out by the European Strategy Group of Council  
(to be started in 2011; final presentations and decisions in Sept. 2012 at Brussels)
  - CERN as scientific „home“ for e.g. astro-particle projects
  - access to test beams and other infrastructure