50 Years of Antiprotons

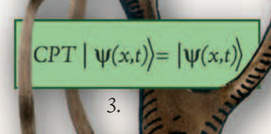
An Anniversary Symposium

Lawrence Berkeley National Laboratory

Honorary Chairman: Owen Chamberlain

1.

2.



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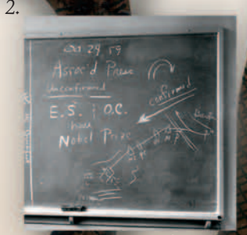
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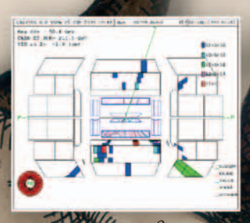
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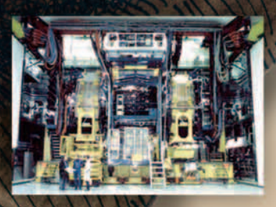
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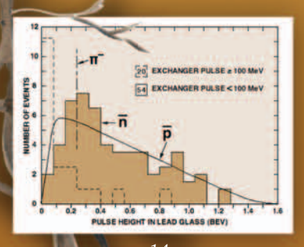

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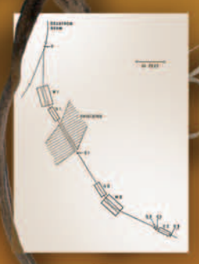
17.

2005
$\bar{p}$
1955

Local Organizing Committee:

James Siegrist
William Chinowsky
Tom Elioff
Gerson Goldhaber
John Jaros
Ronald Madaras
Herbert Steiner
William Wenzel
Karen Hope
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Albrecht Wagner
Michael Witherell
Antonino Zichichi

Sessions

History

The Annihilation Process

Anti-Hydrogen

Antiparticles: Dirac and Majorana

High Energy Antiproton-Proton Interactions

$\bar{p}p$ Colliders

Antiparticles and Cosmology

The Future

Speakers

Laurie Brown
Per Carlson
Jos Engelen
Lyn Evans
Ettore Fiorini
Gerald Gabrielse
Gerson Goldhaber
Paul Grannis
Haim Harari
Eberhard Klempt
Nigel Lockyer
Edward Lofgren
Hitoshi Muryama
Chris Quigg
Carlo Rubbia
Herbert Steiner
Ludwig Tauscher
Mark Trodden
William Wenzel

Antiproton Roots and Branches

1. CDF detector at Fermilab, co-discovery of top quark
2. Anti-hydrogen trap
3. The invariance under CPT
4. Fermilab antiproton recycler
5. W boson production by $\bar{p}p$ collision from UA1 at CERN
6. Announcement of Nobel Prize for Segr and Chamberlain
7. Fermilab Tevatron $\bar{p}p$ collider and Main Injector
8. Top-antitop event in the D-Zero detector at Fermilab
9. UA2 detector at CERN
10. Bevatron
11. Antiproton discovery team and E. Lofgren
12. Albert Einstein, patent office employee
13. Paul A.M. Dirac
14. Annihilation spectra for $\bar{p}$ and $\bar{n}$
15. $\bar{p}$ annihilation event
16. Time of flight measurement for π, $\bar{p}$, and accidental events
17. Diagram of $\bar{p}$ discovery beamline

October 28-29, 2005

Sponsored by LBNL, UC Berkeley Department of Physics, U.S. Department of Energy

For Information and Registration: http://inpa.lbl.gov/pbar/pbar.htm

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