Fermilab Today

Friday, Oct. 26, 2012



That may be true, but it didn't stop Chrisman, who went on to spend 42

Take Five	years working in the held. Most of those years were here at Fermilab, including a recently concluded stint as chief operating officer of the laboratory. With his retirement on the horizon, Chrisman	the electroweak scale to the height of a person, the Planck scale is about halfway to Alpha Centauri. This enormous difference in scale is simply not understand and is called the
Weather	took a break one recent afternoon to reflect on his career.	hierarchy problem.
49°/30° Extended_forecast Weather_at_Fermilab Current Security Status	That career started just after Chrisman graduated with a Ph.D. in physics from the University of Illinois. Lucky for him, his thesis professor's tennis partner was Ned Goldwasser, Fermilab's first deputy director, who hired Chrisman to work in	One possible answer to this mystery invokes additional spatial dimensions. If there are more dimensions beyond the familiar three, the traditional method of estimating the grand unification scale is simply wrong and could occur at much
Secon Level 3	the lab's film analysis facility. "Fermilab was just two years old,"	accessible to the LHC. In order to conform with existing data, these extra dimensions must be " <u>curled_up</u> ." In one
Current Flag Status	Chrisman said. "There was no high-rise and office space was hard to come by. So I worked out of a kitchen in one of the	particular theory, called the Randall- Sundrum model, a new class of
Elags_at_full_staff Wilson Hall Cafe	But the limited space didn't dampen the excitement of helping to build a new	extra dimensions, these are not traditional, massless gravitons. These gravitons have mass. In a specific
Friday, Oct. 26	scientific program in particle physics.	version of the theory, the gravitons are predicted to preferentially decay into
 Breakfast: strawberry- stuffed French toast Philly steak and cheese 	Ring functioning, everyone had the opportunity to be a 'tunnel rat'. It was exciting times," he said.	pairs of <i>Z</i> bosons. CMS searched for massive particles decaying into a pair of <i>Z</i> bosons. In
- Blazin' Buffalo wings - King ranch chicken casserole	University of Chicago, the bubble chamber and Yale	order to enhance the sensitivity of the measurement, they restricted their search to particles with a subatomic spin
 Smart cuisine: Tex-Mex turkey pot pie Honey mustard ham and Swiss panini Assorted pizza Chicken fajitas 	A few years later, Chrisman earned an M.B.A. from the University of Chicago and, at the same time, he moved from "doing" science to "administrating" science. While finishing up his last quarter at the University of Chicago in	of 2, which is the spin expected to be carried by gravitons. The spin of a particle governs the angles at which its daughter particles can be created, so the decay angles were a central part of the analysis. The measurement was
Wilson Hall Cafe Menu Chez Leon	the spring of 1975, he became the executive assistant to the head of Fermilab's accelerator division. That same year, he published several papers	consistent with Standard Model expectations, so no massive gravitons were observed. However, physicists will continue to look at the data in even more
Friday, Oct. 26 Dinner Closed	When the laboratory built the first	—Don Lincoln
Wednesday, Oct. 31 Lunch - Skeleton bones - Frankenstein fingers - Ghost clouds	Chrisman was the project manager. He was also heavily involved in the development of the Northern Illinois University neutron therapy facility at the laboratory.	
- Dracula's dream <u>Chez Leon Menu</u> Call x3524 to make your	He was later promoted to Fermilab's head of business services before leaving in 1983 to take a vice president position at Yale University – the first pon-Yale	Sara Bolognesi Johns Hopkins Alessio Bonato Johns Hopkins/CERN Roberto Covarelli U.Rochester
reservation.	grad to hold an officer title at the	201 70 20

From the kitchen to the board room

After a year in New Haven, Conn.,

Director's Corner

Fermilab Today

Result of the Week

CMS Result

Physics in a Nutshell

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Chrisman was missing the stimulating work and people at Fermilab, so he returned. In the late 1980s he worked on the contract for the Superconducting Super Collider in Texas and, in 1989, was the first person to relocate there to help set up the lab. After a few months, he left the SSC and the Universities Research Association for the second time in his career to manage a law firm in Chicago.

But by May 1991, the allure of physics and the lab had brought Chrisman back to Batavia again, this time for good.

Read more

-Deb Sebastian

Everyone is invited to attend the farewell symposium for Bruce Chrisman today from 3 to 5 p.m. in Ramsey Auditorium, as well as a reception on the Wilson Hall 2nd-floor crossover from 5 to 7 p.m.

Special Announcement

Cafeteria increases prices, closes on Saturdays

Beginning Nov. 5, it will cost more to eat in Fermilab's cafeteria. The amount you pay for food and beverages will increase by about 10 percent, so the average cost of a meal will rise from \$5.00 to \$5.50.

The increase is necessary because of higher food and supply costs, as well as the added cost of janitorial services that have been shifted to revenue-generating areas of the lab, including the cafeteria.

"Because of the heat and drought this past summer, consumers are seeing significantly increased costs for food in the grocery store" said Accommodations Manager Jack Hawkins. "As a result, it costs more today for the supplies we use in the cafeteria."

To save money on your purchases and help keep cafeteria costs down, cafeteria patrons can continue to bring their own cups and mugs. Southern Food Service Management offers a discount of 20 cents each time a patron uses his or her own cup or mug.

Another cost-saving measure is to close the cafeteria on Saturdays beginning on Nov. 10. During some special events, such as Tom Skilling's annual tornado seminar, the cafeteria will remain open.



how much bigger this is than the energy

of electroweak unification, if we equate

In order to select interesting events from the onslaught of collisions that occur at the center of CMS, physicists must teach the detector to "trigger" itself when a collision occurs that is an example of the phenomenon that physicists want to study. This group works in the JETMET group, which specializes in selecting events that have jets or events with missing energy. Events with missing energy can be the signature of dark matter, supersymmetry and other exotic phenomena.

Photo of the Day

Goldenrod in black and white



Elliott McCrory, AD, took this close-up of a tall goldenrod near the woods west of Wilson Hall.

Announcements

Farewell symposium for Bruce **Chrisman - today**

<u>State-of-the-laboratory meetings -</u> today

NALWO Playgroup Halloween party today

Zumba on Fridays - begins today

In the Footsteps of Django - Oct. 27

English country dance Halloween

Special Announcement

Kautz Road Substation power outage - Oct. 29

On Monday, Oct. 29, from 7 to 7:30 a.m. there will be a power outage to install jumpers on a transmission line. This outage will only affect the Main Injector.

In the News

Why symmetry matters From *Nature*, Oct. 24, 2012

Symmetries lie at the heart of the laws of nature. Early scientific giants such as Galileo Galilei, René Descartes and Isaac Newton did not speak in those terms, but symmetries were implicit in their ideas of a comprehensive framework of the Universe. And symmetries lie explicitly at the basis of modern physics, from general relativity to quantum field theory.

To a physicist, symmetry is a broader concept than the reflective form of butterfly wings, or the rotational similarity of a triangular roundabout sign. In physics, to be symmetrical is to be immune to possible changes. Symmetry represents those stubborn cores that remain unaltered even under transformations that could change them.

Read more

Party - Oct. 28

Kautz Road Substation power outage <u>- Oct. 29</u>

Yoga class - begins Oct. 30

Survey of God's promise through history - begins Oct. 30

Butts & Guts - begins Oct. 30, Nov. 1

"Playing with Time" at the Field Museum - register by Oct. 31

SciTech presents Masters of Lightning - Nov. 3

CSADay 2012 training opportunities -<u>Nov. 6</u>

Enrollment for 2013 benefits - through <u>Nov. 6</u>

LabView sessions - scheduled for Nov. 16

Deadline for UChicago Tuition Remission Program - Nov. 26

Calling all veterans

2013 403(b) plan limitations

Applications being accepted for Wilson Fellowship

Abri Credit Union - money just got cheaper

Winter volleyball begins soon

Accelerate to a Healthy Lifestyle <u>update</u>

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