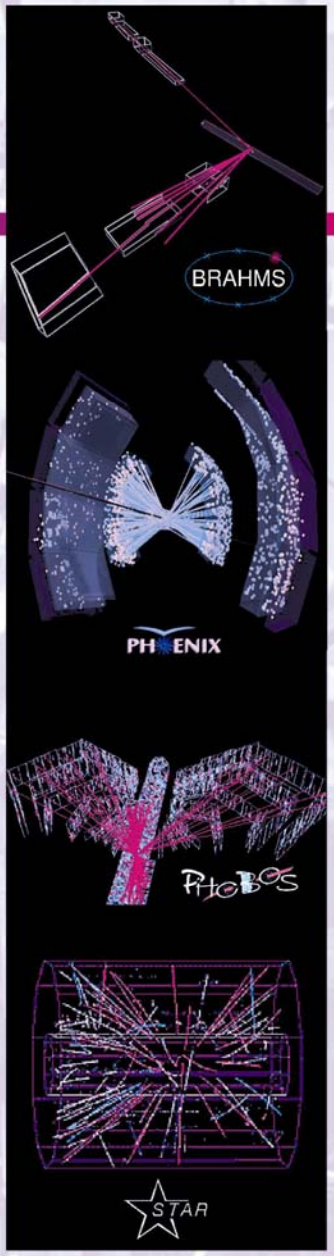
Copy to Quick Copy is done in GrayScale and Background of Box for Each Experiment is done w/ NO FILL!

BNL 34518
Seventeenth Edition
Informal Report

BROOKHAVEN NATIONAL LABORATORY
Upton, Long Island, New York 11973-5000



C-AD EXPERIMENTS

2000 ♦ 2001 ♦ 2002 ♦ 2003 ♦ 2004

BNL 34518
Seventeenth Edition
Informal Report

C-AD Experiments – 2000 - 2004

P. Lo Presti
Y. Makdisi
G. Greene

March 2004

Collider-Accelerator Department
Experimental Support and Facilities Division

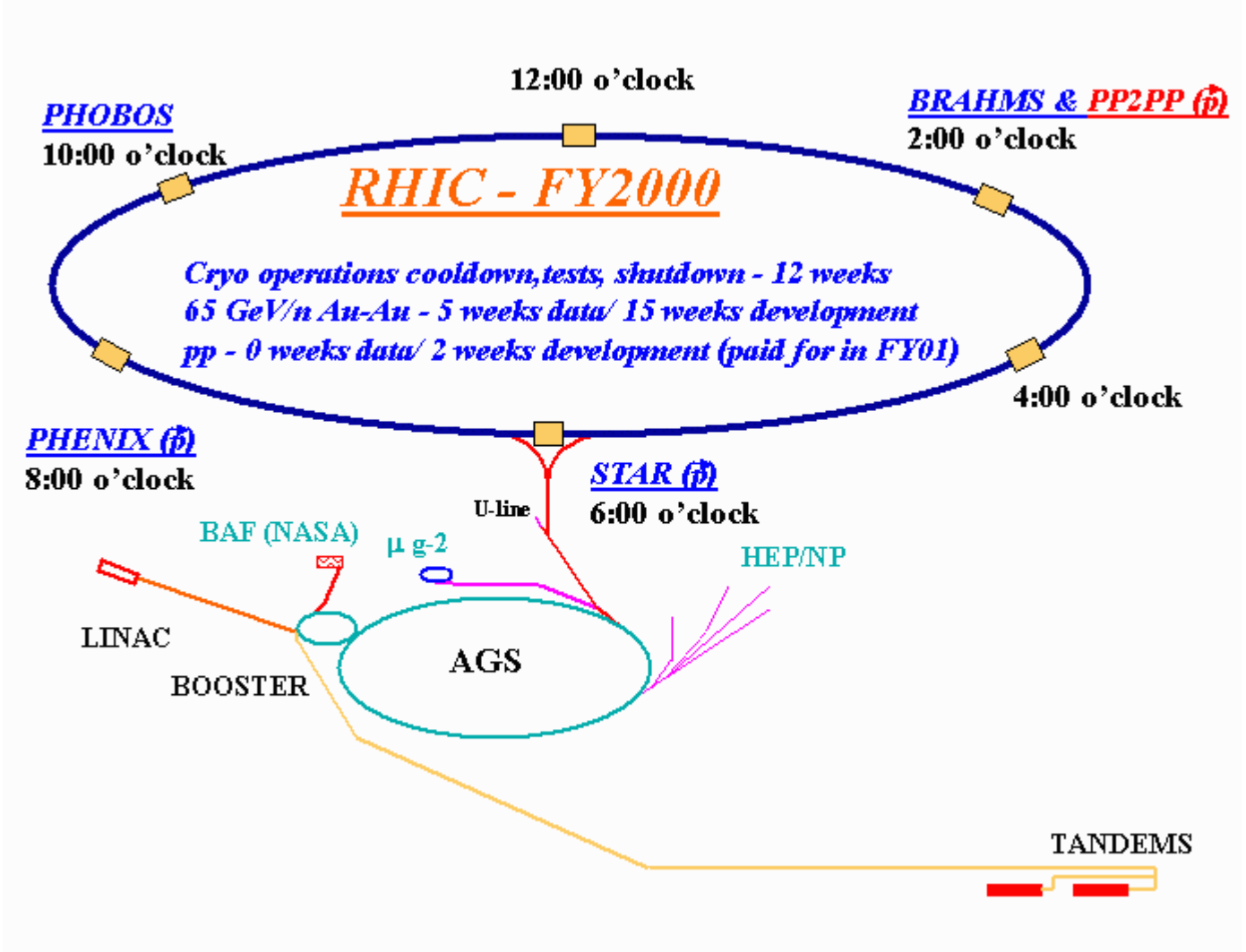
Brookhaven National Laboratory
Brookhaven Science Associates
Upton, New York 11973-5000
United States of America

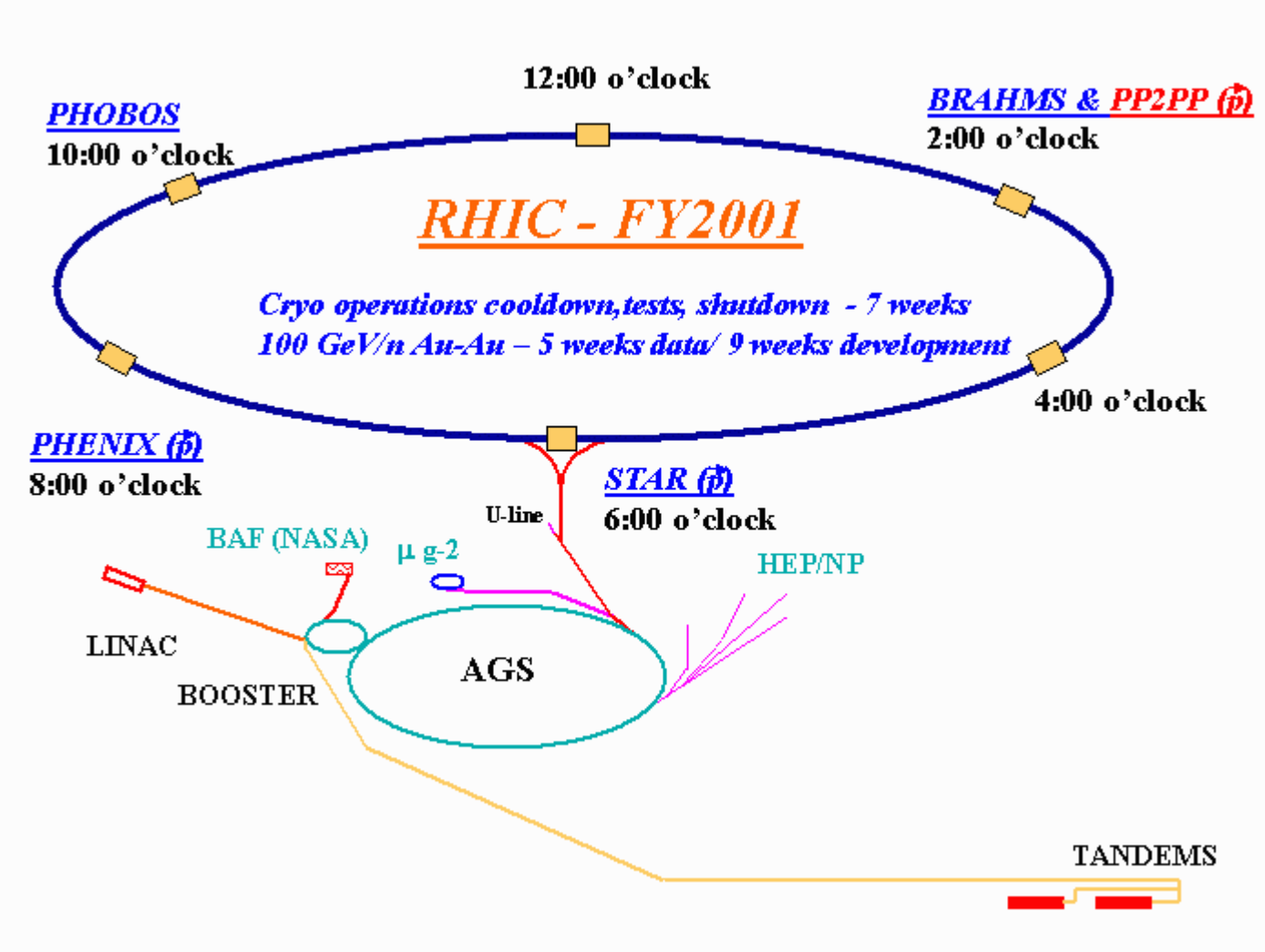
Under Contract No. DE-AC02-98CH10886 with the
United States Department of Energy

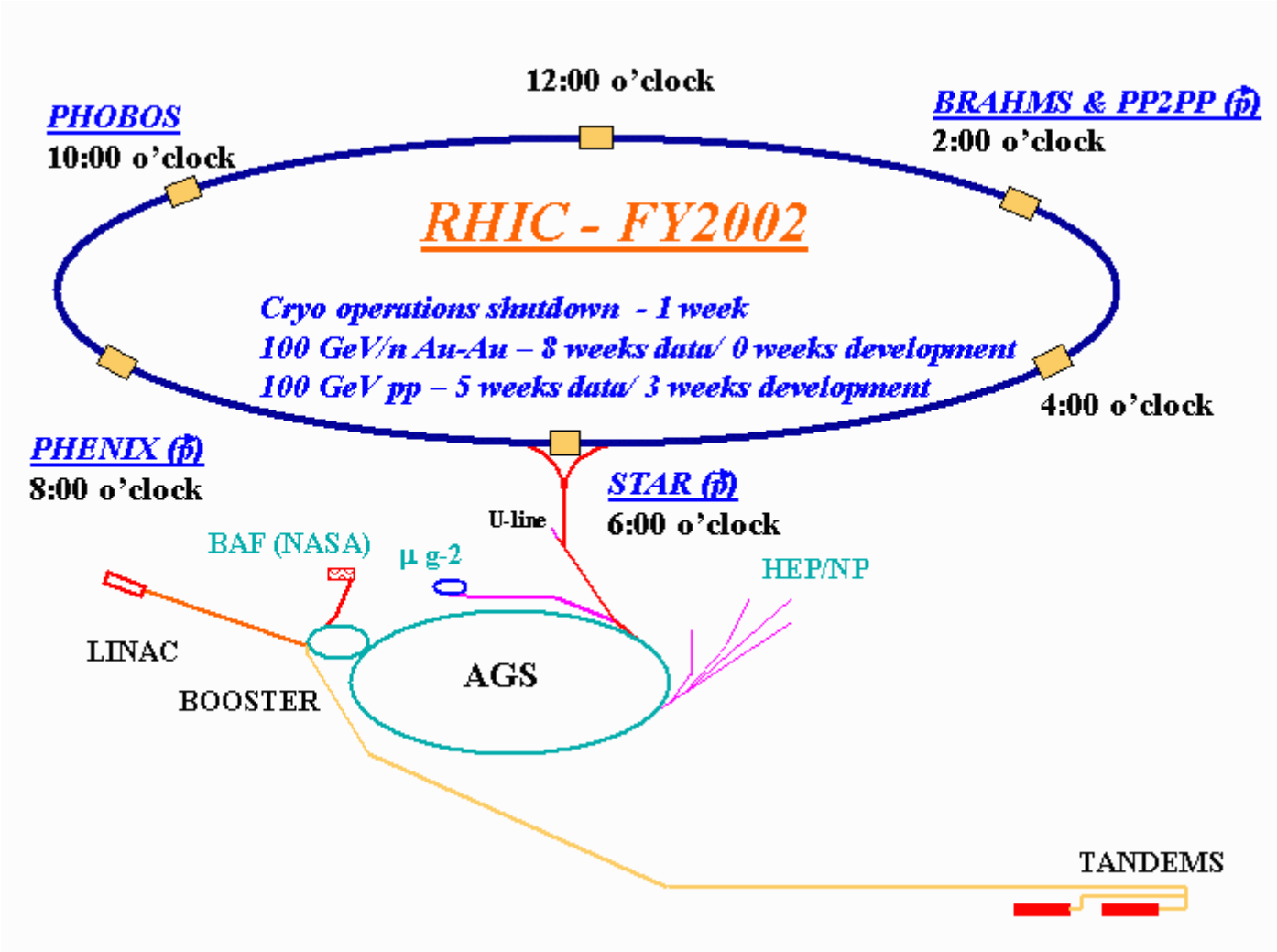
This publication can be located at the following web site:
http://server.c-ad.bnl.gov/esfd/eps.htm

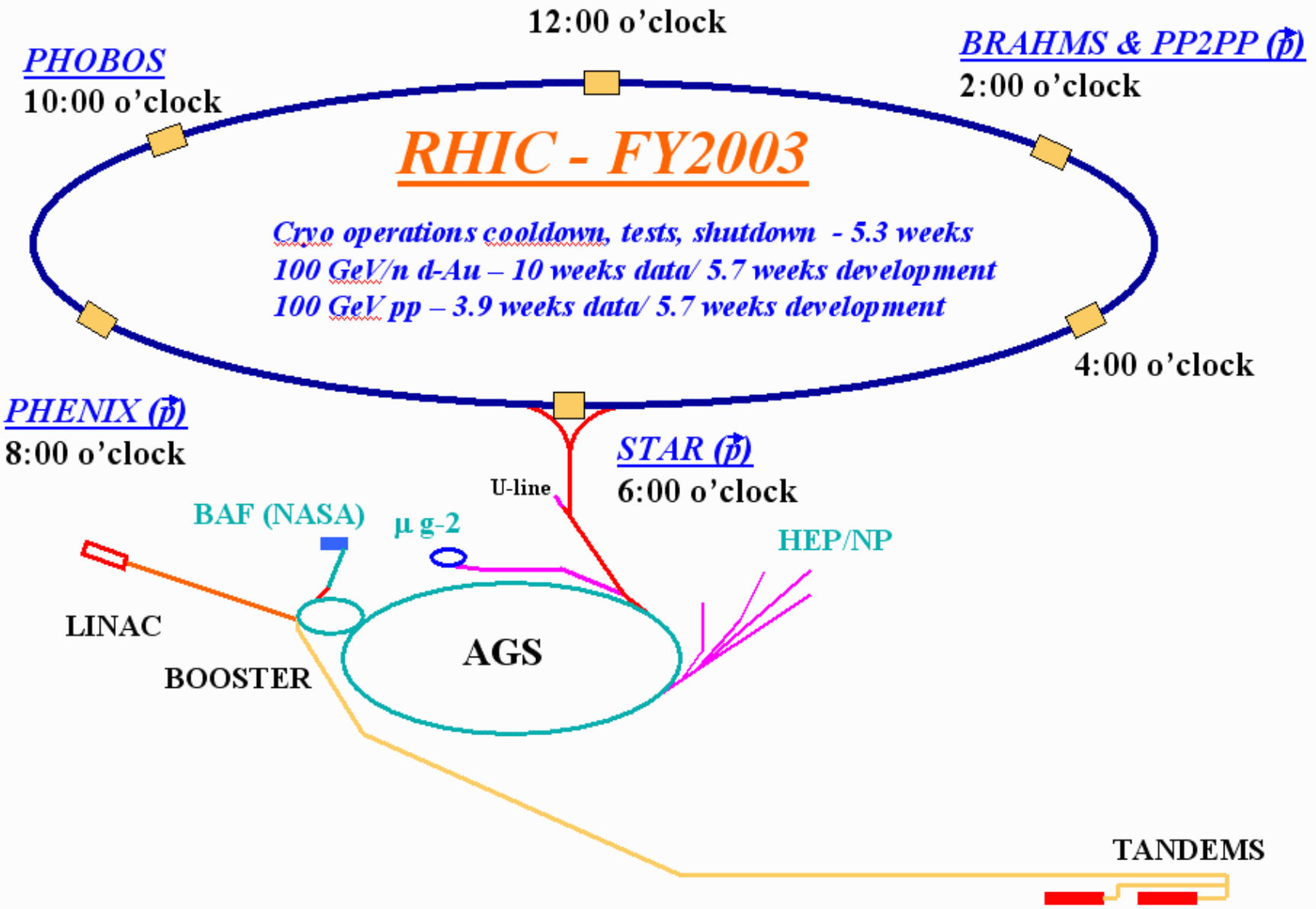
C-AD Experiments – 2000 - 2004

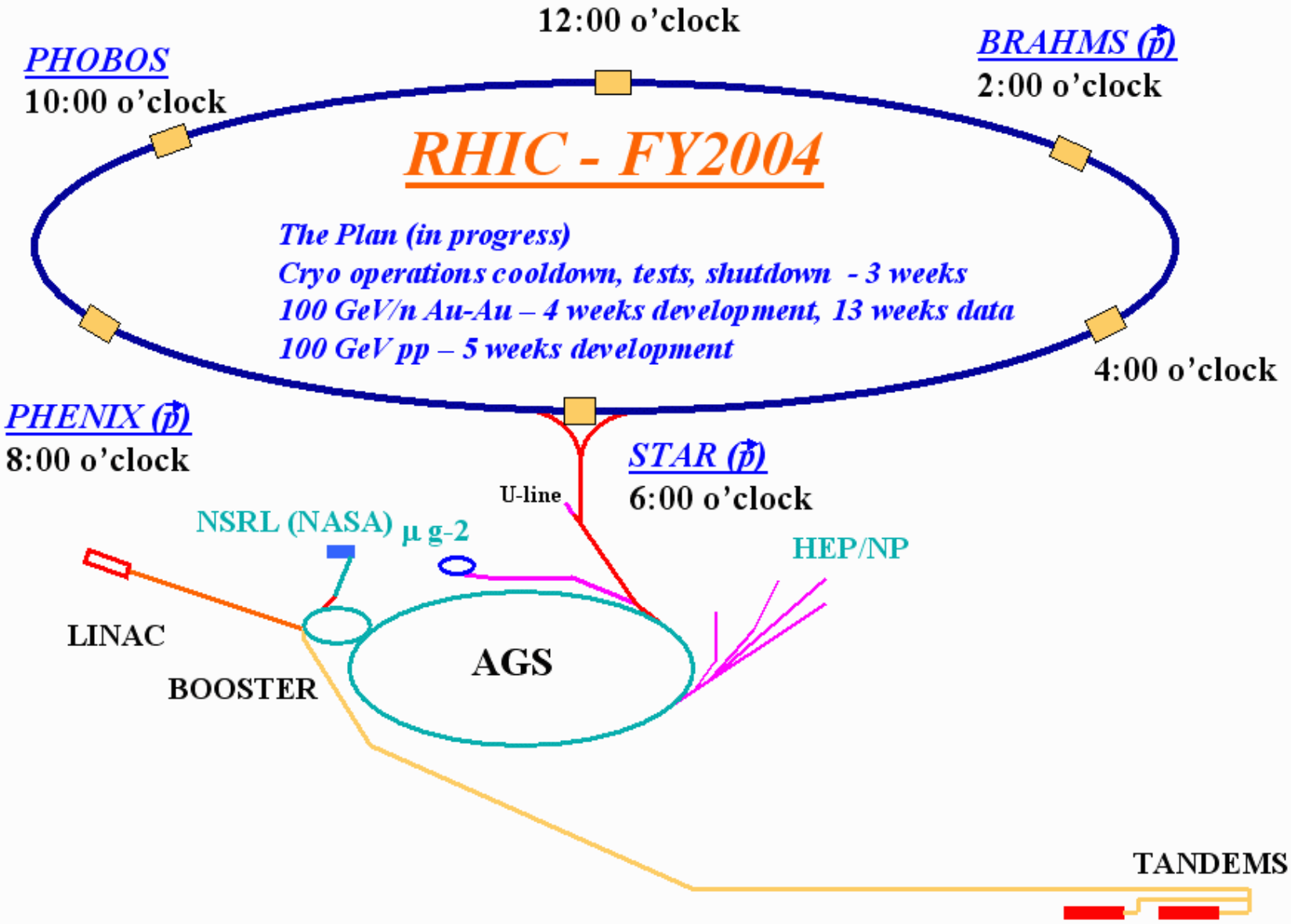
Table of Contents

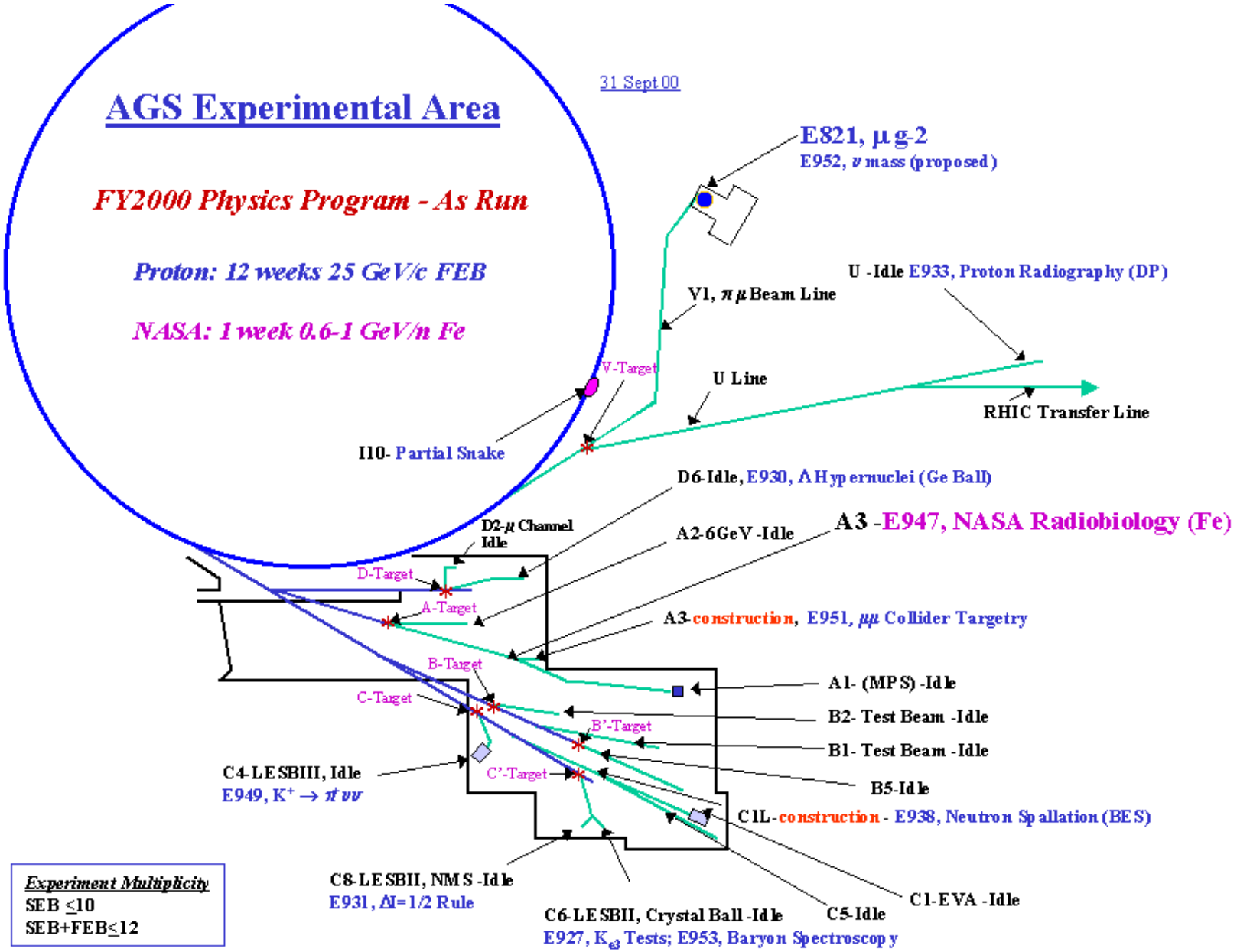

12:00 o'clock
PHOBOS
10:00 o'clock
BRAHMS & PP2PP (p)
2:00 o'clock
RHIC - FY2000
Cryo operations cooldown,tests, shutdown - 12 weeks
65 GeV/n Au-Au - 5 weeks data/ 15 weeks development
pp - 0 weeks data/ 2 weeks development (paid for in FY01)
4:00 o'clock
PHENIX (p)
8:00 o'clock
STAR (p)
6:00 o'clock
U-line
BAF (NASA)
μ g-2
HEP/NP
LINAC
BOOSTER
AGS
TANDEMS

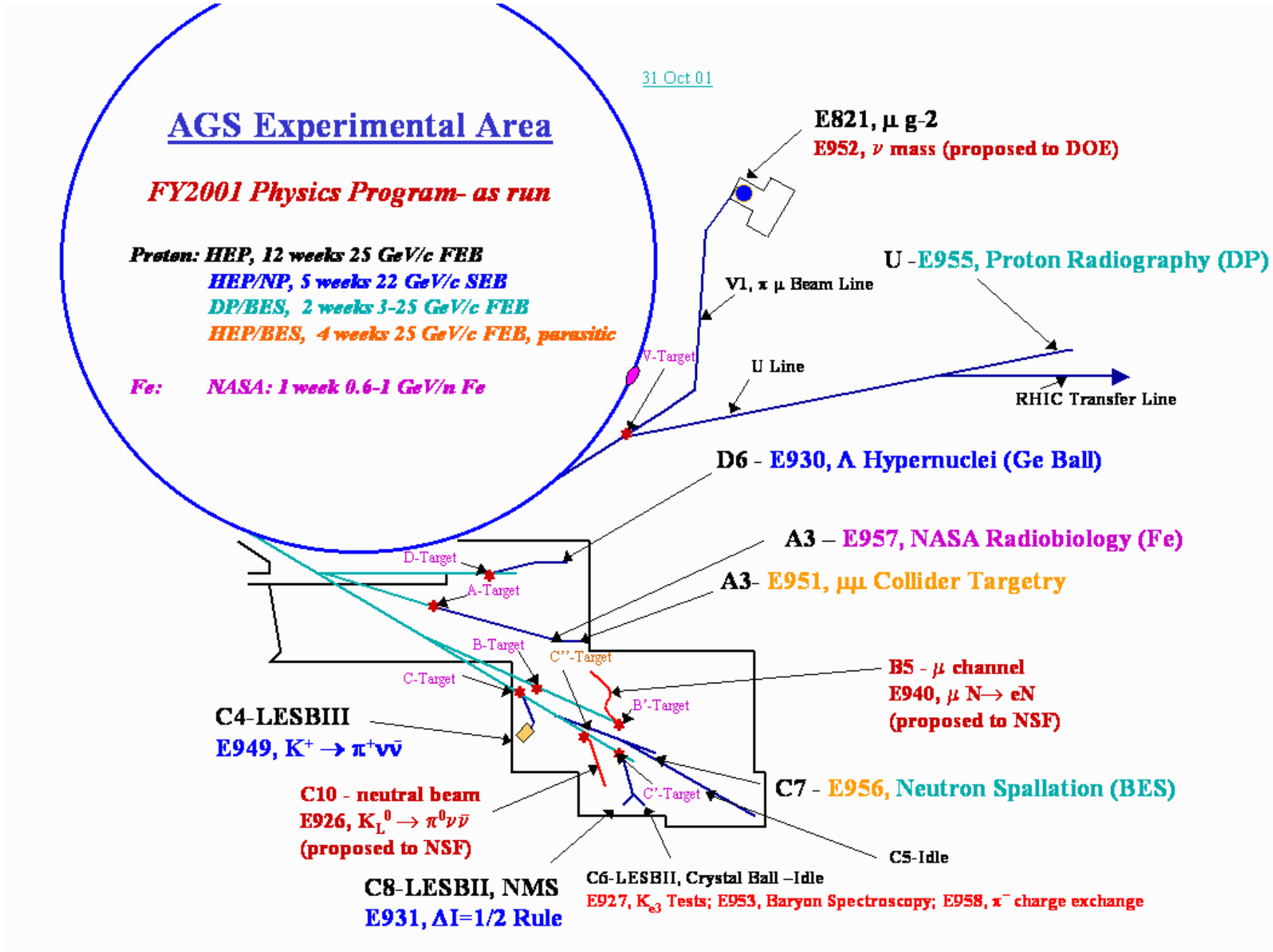

12:00 o'clock
PHOBOS
10:00 o'clock
BRAHMS & PP2PP (p)
2:00 o'clock
RHIC - FY2001
Cryo operations cooldown,tests, shutdown - 7 weeks
100 GeV/n Au-Au – 5 weeks data/ 9 weeks development
4:00 o'clock
PHENIX (p)
8:00 o'clock
STAR (p)
6:00 o'clock
U-line
BAF (NASA)
μ g-2
HEP/NP
LINAC
BOOSTER
AGS
TANDEMS

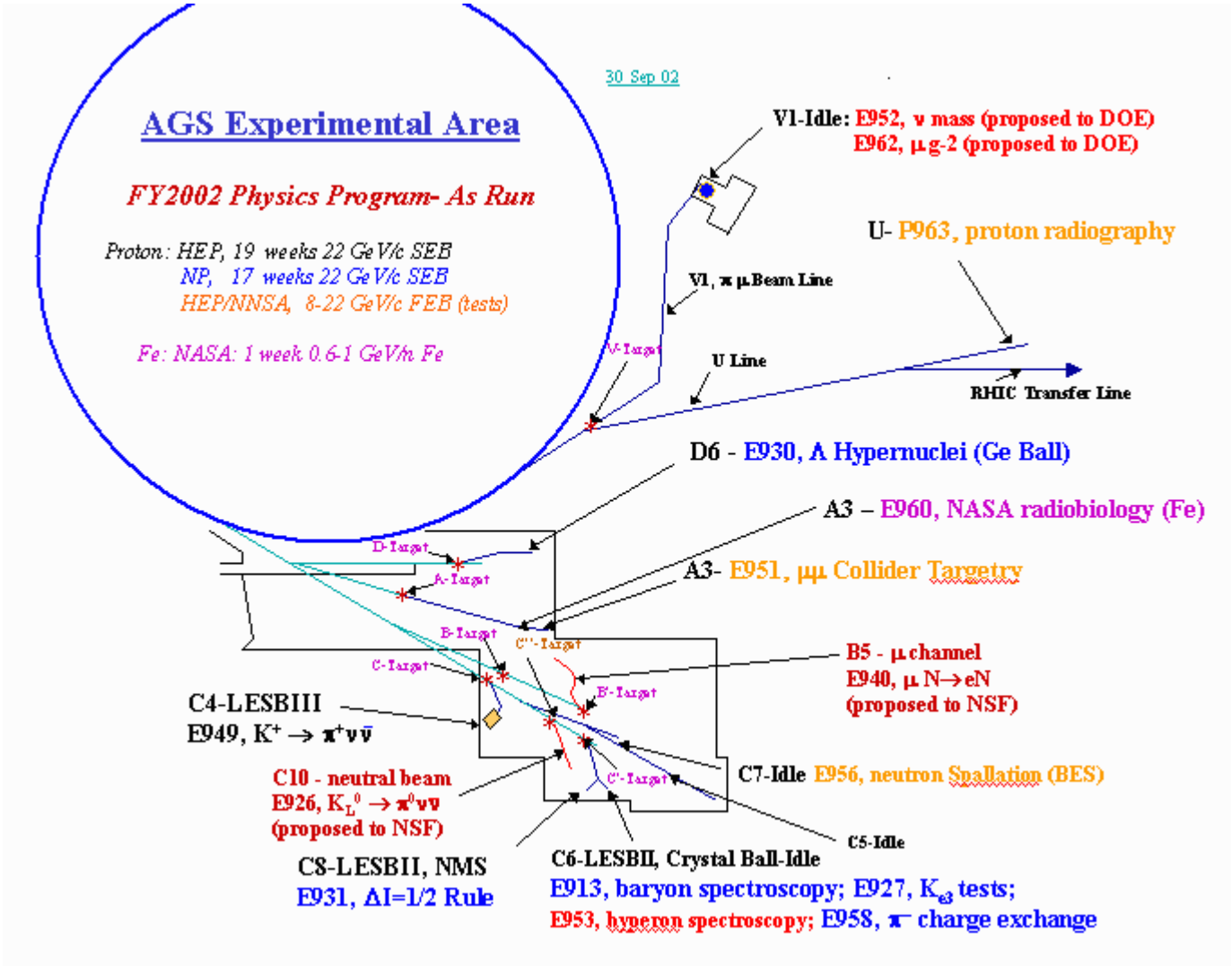

12:00 o'clock
PHOBOS
10:00 o'clock
BRAHMS & PP2PP (p)
2:00 o'clock
RHIC - FY2002
Cryo operations shutdown - 1 week
100 GeV/n Au-Au – 8 weeks data/ 0 weeks development
100 GeV pp – 5 weeks data/ 3 weeks development
4:00 o'clock
PHENIX (p)
8:00 o'clock
STAR (p)
6:00 o'clock
U-line
BAF (NASA)
μ g-2
HEP/NP
LINAC
BOOSTER
AGS
TANDEMS

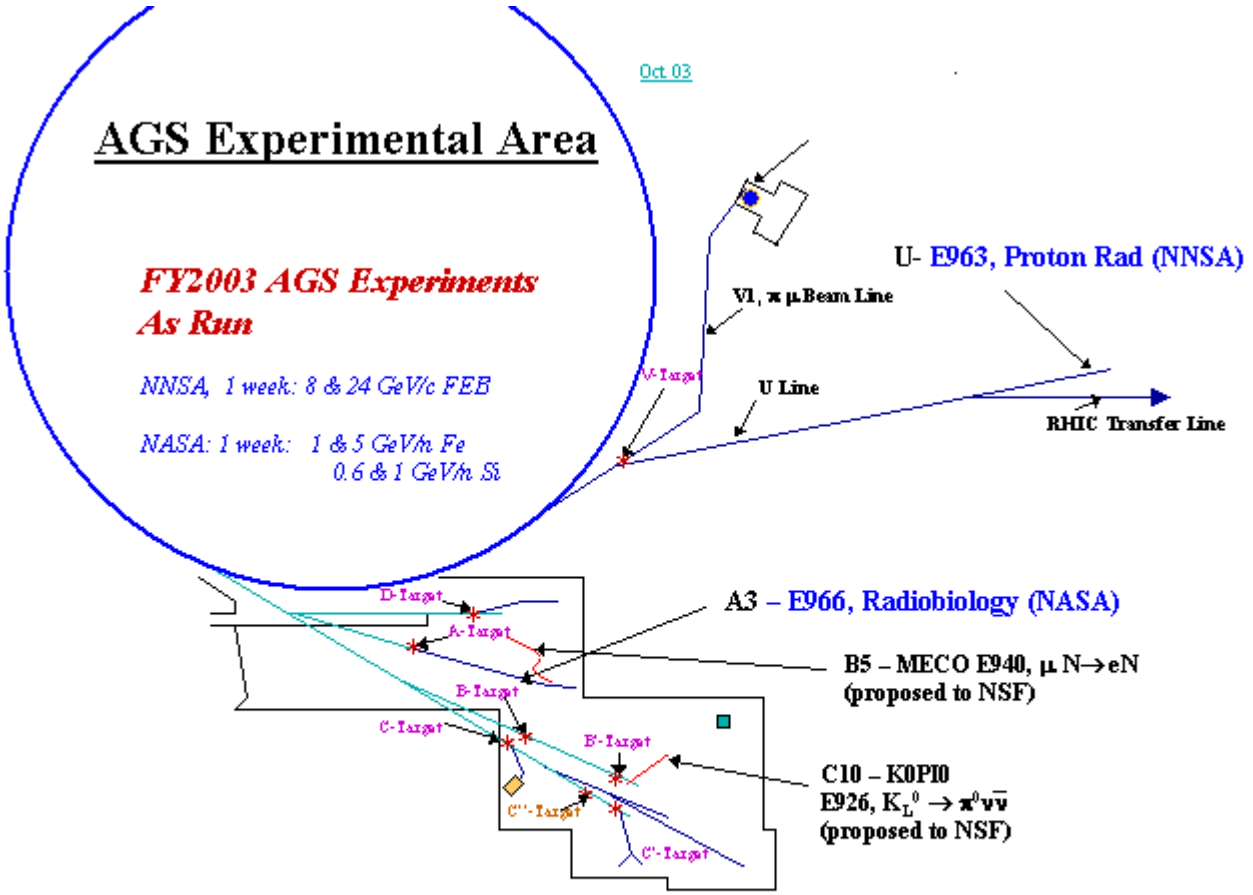

12:00 o'clock
PHOBOS
10:00 o'clock
BRAHMS & PP2PP (p)
2:00 o'clock
RHIC - FY2003
Cryo operations cooldown, tests, shutdown - 5.3 weeks
100 GeV/n d-Au – 10 weeks data/ 5.7 weeks development
100 GeV pp – 3.9 weeks data/ 5.7 weeks development
4:00 o'clock
PHENIX (p)
8:00 o'clock
STAR (p)
6:00 o'clock
U-line
BAF (NASA)
μ g-2
HEP/NP
LINAC
BOOSTER
AGS
TANDEMS

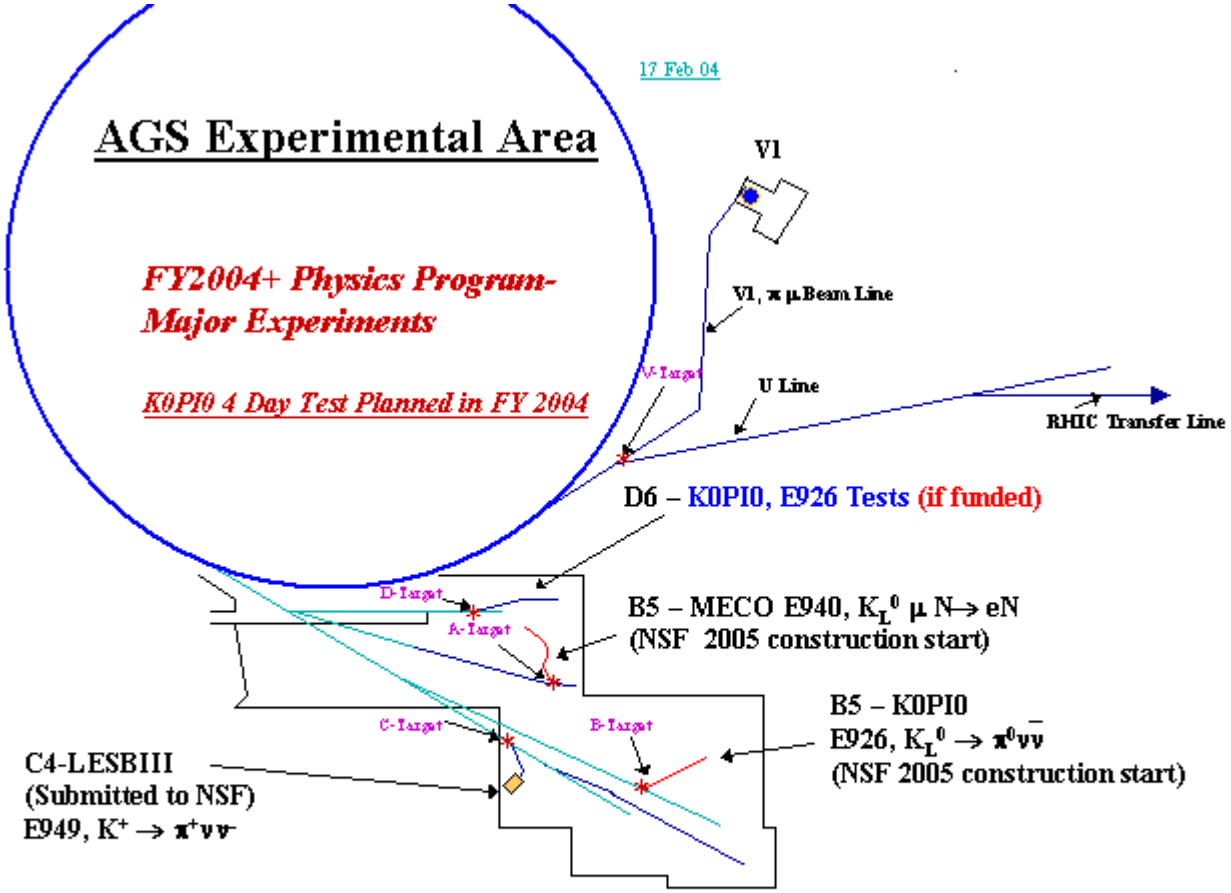

12:00 o'clock
PHOBOS
10:00 o'clock
BRAHMS (p)
2:00 o'clock
RHIC - FY2004
The Plan (in progress)
Cryo operations cooldown, tests, shutdown - 3 weeks
100 GeV/n Au-Au – 4 weeks development, 13 weeks data
100 GeV pp – 5 weeks development
4:00 o'clock
PHENIX (p)
8:00 o'clock
STAR (p)
6:00 o'clock
U-line
NSRL (NASA)
μ g-2
HEP/NP
LINAC
BOOSTER
AGS
TANDEMS
2/17/04


AGS Experimental Area
31 Sept 00
FY2000 Physics Program - As Run
Proton: 12 weeks 25 GeV/c FEB
NASA: 1 week 0.6-1 GeV/n Fe
E821, μ g-2
E952, ν mass (proposed)
U -Idle E933, Proton Radiography (DP)
V1, π μ Beam Line
V-Target
U Line
RHIC Transfer Line
I10- Partial Snake
D6-Idle, E930, Λ Hypernuclei (Ge Ball)
D2-μ Channel Idle
A2-6GeV -Idle
A3 -E947, NASA Radiobiology (Fe)
D-Target
A-Target
A3-construction, E951, μμ Collider Targetry
B-Target
A1- (MPS) -Idle
C-Target
B2- Test Beam -Idle
B'-Target
B1- Test Beam -Idle
C4-LESBIII, Idle
E949, K+ → π νν
C'-Target
B5-Idle
C1L-construction - E938, Neutron Spallation (BES)
C8-LESBII, NMS -Idle
E931, ΔI=1/2 Rule
C1-EVA -Idle
C6-LESBII, Crystal Ball -Idle
C5-Idle
E927, Ke3 Tests; E953, Baryon Spectroscopy
Experiment Multiplicity
SEB ≤10
SEB+FEB≤12


31 Oct 01
AGS Experimental Area
FY2001 Physics Program- as run
Proton: HEP, 12 weeks 25 GeV/c FEB
HEP/NP, 5 weeks 22 GeV/c SEB
DP/BES, 2 weeks 3-25 GeV/c FEB
HEP/BES, 4 weeks 25 GeV/c FEB, parasitic
Fe: NASA: 1 week 0.6-1 GeV/n Fe
E821, μ g-2
E952, ν mass (proposed to DOE)
U -E955, Proton Radiography (DP)
V1, π μ Beam Line
V-Target
U Line
RHIC Transfer Line
D6 - E930, Λ Hypernuclei (Ge Ball)
A3 – E957, NASA Radiobiology (Fe)
A3- E951, μμ Collider Targetry
D-Target
A-Target
B-Target
C''-Target
C-Target
B'-Target
B5 - μ channel
E940, μ N→ eN
(proposed to NSF)
C4-LESBIII
E949, K+ → π+νν̄
C10 - neutral beam
E926, KL0 → π0νν̄
(proposed to NSF)
C7 - E956, Neutron Spallation (BES)
C'-Target
C5-Idle
C8-LESBII, NMS
E931, ΔI=1/2 Rule
C6-LESBII, Crystal Ball –Idle
E927, Ke3 Tests; E953, Baryon Spectroscopy; E958, π− charge exchange


30 Sep 02
AGS Experimental Area
FY2002 Physics Program- As Run
Proton: HEP, 19 weeks 22 GeV/c SEB
NP, 17 weeks 22 GeV/c SEB
HEP/NNSA, 8-22 GeV/c FEB (tests)
Fe: NASA: 1 week 0.6-1 GeV/n Fe
V1-Idle: E952, ν mass (proposed to DOE)
E962, μ g-2 (proposed to DOE)
U- P963, proton radiography
V1, π μ Beam Line
U Line
RHIC Transfer Line
D6 - E930, Λ Hypernuclei (Ge Ball)
A3 – E960, NASA radiobiology (Fe)
A3- E951, μμ Collider Targetry
B5 - μ channel
E940, μ N→eN
(proposed to NSF)
C4-LESBIII
E949, K+ → π+νν̄
C10 - neutral beam
E926, KL0 → π0νν
(proposed to NSF)
C7-Idle E956, neutron Spallation (BES)
C5-Idle
C8-LESBII, NMS
E931, ΔI=1/2 Rule
C6-LESBII, Crystal Ball-Idle
E913, baryon spectroscopy; E927, Ke3 tests;
E953, hyperon spectroscopy; E958, π− charge exchange


Oct 03
AGS Experimental Area
FY2003 AGS Experiments
As Run
NNSA, 1 week: 8 & 24 GeV/c FEB
NASA: 1 week: 1 & 5 GeV/n Fe
0.6 & 1 GeV/n Si
U- E963, Proton Rad (NNSA)
V1, π μ Beam Line
U Line
RHIC Transfer Line
A3 – E966, Radiobiology (NASA)
B5 – MECO E940, μ N→eN
(proposed to NSF)
C10 – K0PI0
E926, $K_L^0 \rightarrow \pi^0 \nu\bar{\nu}$
(proposed to NSF)


17 Feb 04
AGS Experimental Area
FY2004+ Physics Program-
Major Experiments
K0PI0 4 Day Test Planned in FY 2004
V1
V1, π μ Beam Line
U Line
RHIC Transfer Line
D6 – K0PI0, E926 Tests (if funded)
B5 – MECO E940, K_L^0 μ N→ eN
(NSF 2005 construction start)
B5 – K0PI0
E926, $K_L^0 \rightarrow \pi^0 \nu\bar{\nu}$
(NSF 2005 construction start)
C4-LESBIII
(Submitted to NSF)
E949, $K^+ \rightarrow \pi^+ \nu\bar{\nu}$

LIST OF EXPERIMENTS

Summary Of Experiments

Two of the outstanding questions of fundamental science are:

What happened during the first few moments of the early universe?

And….

How does the proton get its spin?

These questions will be addressed by the RHIC detectors

BRAHMS
PHENIX
PHOBOS
PP2PP
RHIC STAR
STAR

EXPERIMENT BRAHMS
Home Page ***http://www4.rcf.bnl.gov/brahms/WWW/brahms.html***

Beam: 2:00 o'clock
Status: In Progress

EXPERIMENT – BRAHMS

SPOKESPERSON: F. VIDEBAEK, J. J. GAARDHOJE

- **Brookhaven National Laboratory** - D. Beavis, C. Chasman, R. Debbe, J. H. Lee, E. McBreen, K. Olchanski, J. W. Olness, R. Scheetz, F. Videbaek
- **Fysisk Institutt, U. Bergen (Norway) –** J. I. Jørdre, D. Roehrich
- **Jagellonian University –** K. Grotowski, R. Karabowicz, T. Kozik, Z. Majka, Z. Sosin, P. Staszel
- **Johns Hopkins University -** E. J. Kim, Y. K. Lee
- **New York University –** B. Budick
- **Niels Bohr Inst. for Astronomy, Physics and Geophysics University –** I. G. Bearden, J. P. Bondorf, H. Boggild, P. Christiansen, J. J. Gaardhoje, O. Hansen, A. Holm, C. Holm, C. E. Jorgensen, H. Heiselberg, B. Svane Nielsen
- **Texas A&M University –** J. Cibor, K. Hagel, M. Murray, J. Natowitz, R. Wada
- **University Bucharest –** D. Argintaru, C. Besliu, F. Constantin, D. Felea, A. Jipa, R. Zaharia, I. S. Zgura
- **University of Kansas –** H. Ito, J. Norris, S. J. Sanders
- **University of Oslo –** E. Enger, T. M. Larsen, S. Lindal, G. Lovhoiden, M. Mikelsen, B. M. Samset, T. S. Tveter

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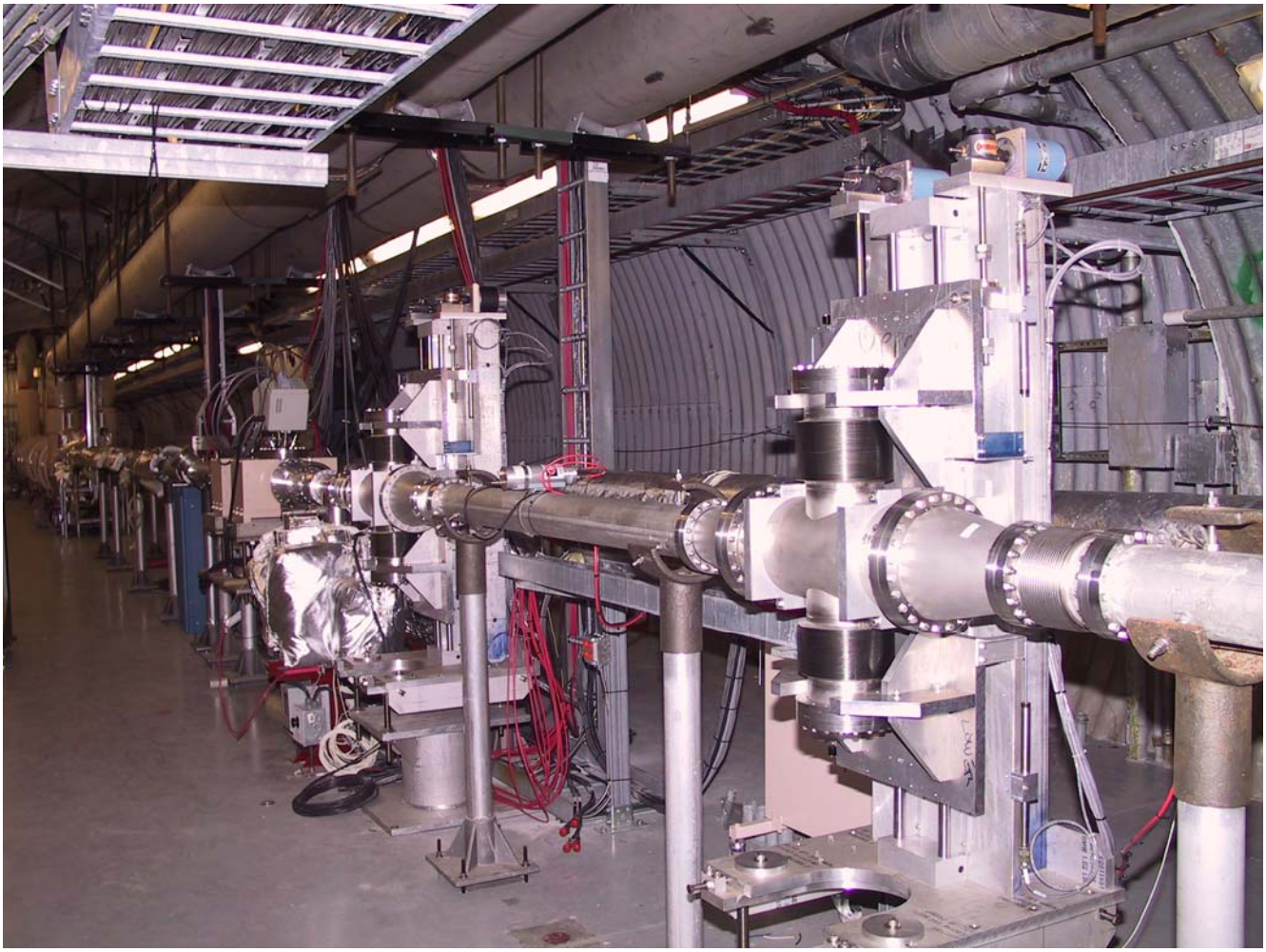
BRAHMS, the **B**road **RA**nge **H**adron **M**agnetic **S**pectrometers experiment at RHIC is designed to measure charged hadrons over a wide range of rapidity and transverse momentum to study the reaction mechanisms of the relativistic heavy ion reactions at RHIC and the properties of the highly excited nuclear matter formed in these reaction.



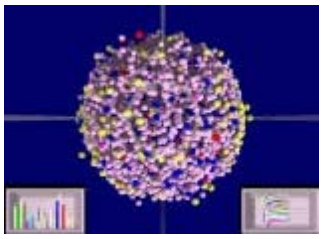
Beam: 2:00 o'clock
Status: Completed FY 2003

EXPERIMENT – PP2PP

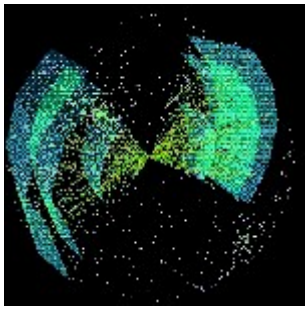
SPOKESPERSON: W. GURYN

- **Brookhaven National Laboratory** – S. Bültmann, I-H. Chiang, R. Chrien, A. Drees, R. Gill, W. Guryn, D. Lynn, P. Pile, A. Rusek, M.Sakitt, S. Tepikian
- **Ecole Polytechnique (France) –** M. Haguenauer
- **Institute of Nuclear Physics (Poland)** – J. Chwastowski, B. Pawlik
- **Institute for Nuclear Studies (Poland) –** A. Sandacz
- **Moscow Engineering Physics Institute -** A. A. Bogdanov, S. B. Nurushev, M. F. Runtzo, M. N. Strikhanov
- **Inst. Theor. & Exper. Physics (Russian)** – I. G. Alexeyev, V. P. Kanavets, B. V. Morozov, D. N. Svirida
- **State University of New York at Stony Brook –** M. Rijssenbeek, C. Tang, S. Yeung
- **University of Texas –** K. De, N. Guler

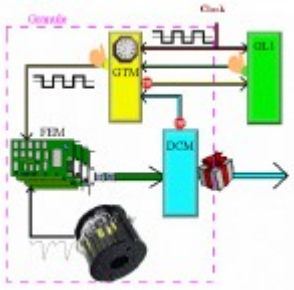
This was an experiment to study proton-proton (pp) elastic scattering experiments at RHIC. Using both polarized and unpolarized beams, the experiment studied pp elastic scattering from $\sqrt{s}$ = 60 GeV to $\sqrt{s}$ = 200 GeV in two kinematical regions.



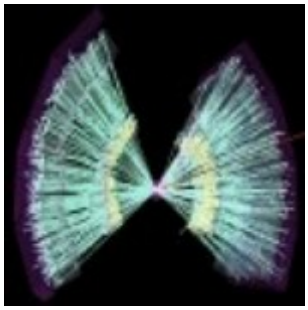
A RHIC heavy ion collision occurs in PHENIX



Particles from the collision travel through the PHENIX detectors



Very fast electronics decide whether or not to record a collision



The data is processed, or *reconstructed,* into particle type, momentum, energy, charge, etc.

Beam: 8:00 o'clock
Status: In Progress

EXPERIMENT – PHENIX

SPOKESPERSON: W. A. ZAJC

The PHENIX collaboration consists of over 430 physicists and engineers from 51 participating institutions in 13 countries. A comparable number of support personnel also work on PHENIX.

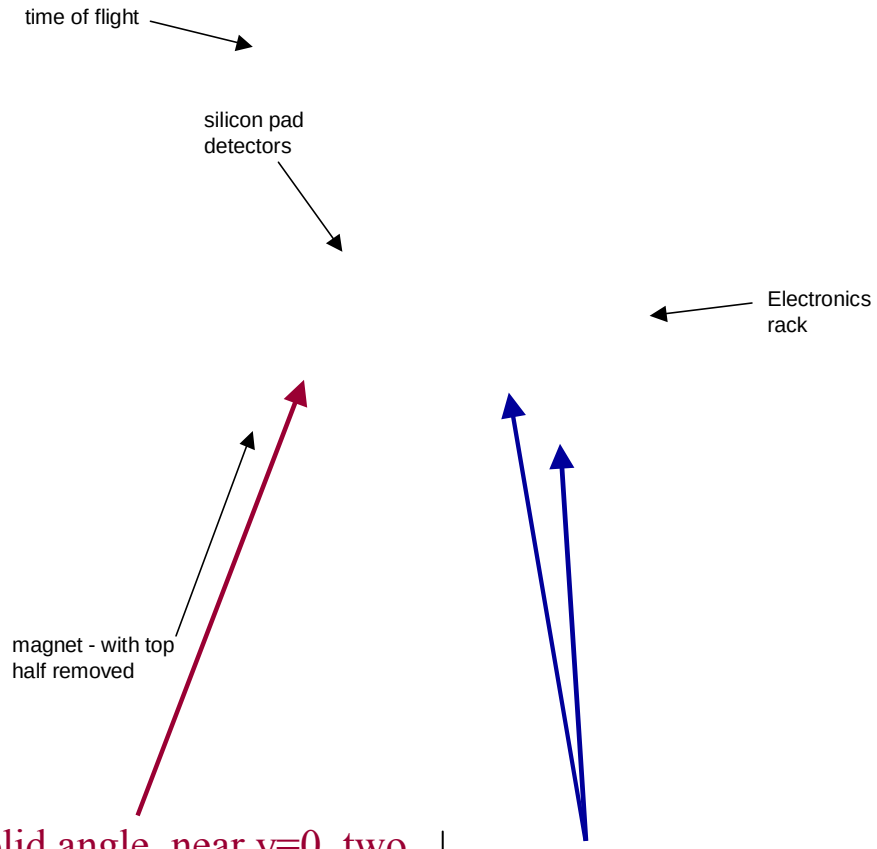
Abilene Christian University
Joint Institute for Nuclear Research
RIKEN
Work at Stony Brook
Riverside
Physics
IPN Orsay University and Ames Lab.
PNPI St. Petersburg Nuclear Physics Inst.

PHENIX, **P**ioneering **H**igh **E**nergy **N**uclear **I**nteraction E**X**periment, is a very large detector system, which is designed to detect, identify, and measure the momentum of each of the many different kinds of particles produced at RHIC. PHENIX comprises three electromagnets, four instrumented spectrometers or arms, and inner detector systems.

PHENIX looks deep into the source of RHIC physics to learn about the earliest times of quark gluon plasma formation in heavy-ion collisions, and uncover the secrets of the spin structure of the proton in polarized proton collisions.

The design of the detectors and readout has been optimized across a very broad dynamic range from A-A collisions (low rate, large events, high occupancy) to $\vec{p} - \vec{p}$ collisions (high rate, small events, low occupancy). The result of this optimization is a detector with the ability to measure both large cross section hadronic phenomena and rare processes.

EXPERIMENT PHOBOS
Home Page http://phobos-srv.chm.bnl.gov/



1% solid angle, near y=0, two arm multiparticle spectrometer

- P_t distributions
- very low P_t threshold
- π / K / p / ϕ ratios
- particle correlations (HBT)
- mass and width $\phi \rightarrow K^+ K^-$

10,000 element 4π detector

- event by event - N, $dN/d\eta$, $d^2N/d\eta d\phi$
- unbiased global look at very large number of collisions ($\sim 10^9$)
- sensitive to large fluctuations in global variables

Beam: 10:00 o'clock
Status: In Progress

EXPERIMENT – PHOBOS

SPOKESPERSON: W. BUSZA

The PHOBOS collaboration consists of over 100 physicists and engineers. A comparable number of support personnel also work on PHOBOS.

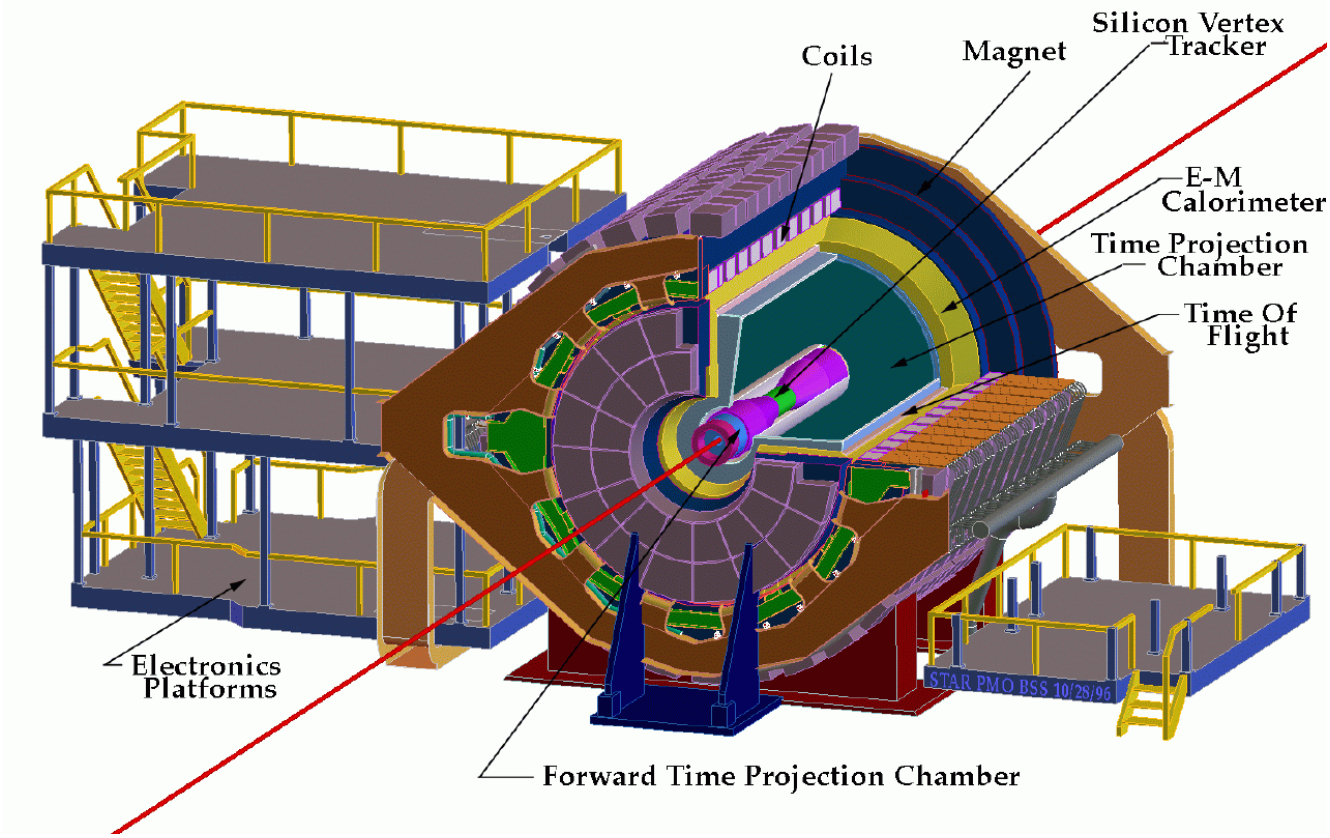
- **Argonne National Laboratory**
- **Brookhaven National Laboratory**
- **Institute of Nucl. Phys. – Krakow, Poland**
- **Massachusetts Inst. of Technology**
- **National Central University – Taiwan**
- **University of Rochester**
- **University of Illinois – Chicago**
- **University of Maryland**

PHOBOS consists of many silicon detectors surrounding the interacton region. With these detectors physicists will be able to count the total number of produced particles and study the angular distributions of all the products. With this array they will be on the look out for unusual events, fluctuations in the number of particles and angular distribution. Physicists know from other branches of physics that a characteristic for phase transitions are fluctuations in physical observables. In order to obtain more detailed information about these events the PHOBOS detector has two high quality magnetic spectrometers which study, in detail, 1% of the produce particles.

The PHOBOS detector is able to measure quantities such as the temperature, size, and density of the fireball produced in the heavy ion collision. It studies the ratios of the various particles produced. With this information it should be possible to both detect and study a phase transition that might occur between Quark-Gluon Plasma (QGP) and ordinary nuclear matter.

EXPERIMENT STAR
Home Page http://www.star.bnl.gov

STAR Detector



Beam: 6:00 o'clock
Status: In Progress

EXPERIMENT – STAR

SPOKESPERSON: T. HALLMAN

The STAR collaboration consists of hundreds of physicists and engineers.
STAR is composed of 50 institutions from 12 countries, with a total of 503 collaborators

- **Argonne National Laboratory**
- **Brookhaven National Laboratory**
- **California Institute of Technology**
- **Carnegie Mellon University**
- **City College of New York**
- **Creighton University**
- **Indian Institute of Tech. - Bombay**
- **Indiana University**
- **Institute of High Energy Physics – Beijing**
- **Institute of High Energy Physics – Protvino**
- **Institute of Fisica da Universidade de Sao Paulo**
- **Institute of Modern Physics - Lanzhou**
- **Institute of Particle Physics – Wuhan**
- **Institute of Physics - Bhubaneswar**
- **Institute de Recherches Subatomiques (IReS) de Strasbourg**
- **Jammu University**
- **Kent State University**
- **Laboratory of High Energy Physics - Dubna**
- **Lawrence Berkeley Laboratory**
- **Massachusetts Inst. of Technology**
- **Max-Planck-Institute fuer Physics**
- **Michigan State University**
- **Moscow Engineering Physics Institute**
- **NIKHEF**
- **Nuclear Physicis Institute, Czech Republic**
- **Ohio State University**
- **Panjab University**
- **Particle Physics Laboratory - Dubna**
- **Pennsylvania State University**
- **Purdue University**
- **Rice University**
- **Shanghai Inst. of Nuclear Research**
- **SUBATECH, Nantes**
- **Texas A&M University**
- **Tsinghua University**
- **University of Bern**
- **University of Birmingham**
- **University of California – Berkeley**
- **University of California – Davis**
- **University of California – Los Angeles**
- **University of Frankfurt**
- **University of Rajasthan**
- **University of Science & Technology of China**
- **University of Texas - Austin**
- **University of Washington**
- **University of Zagreb**
- **Valparaiso University**
- **Variable Energy Cyclotron Center - Calcutta**
- **Warsaw University of Technology**
- **Wayne State University**
- **Yale University**

The **S**olenoidal **T**racker **A**t **R**HIC (STAR) experiment is designed to search for signatures of quark-gluon plasma (QGP) formation and to investigate the behavior of strongly interacting matter at high density. The experimental emphasis in the STAR heavy ion program is correlation of many observables on an event-by-event basis, and the use of hard scattering of partons as a penetrating probe of high density nuclear matter.

A second focus of the STAR experimental program is to study the spin-dependent parton distributions of the proton, using beams of transverse and longitudinally polarized protons. A specific goal is to measure the polarization of gluons in the proton, using the QCD "Compton" Progress ($qg \rightarrow q\gamma$) as a probe.

The STAR detection system consists of a Time Projection Chamber (TPC) and a Silicon Vertex Tracker (SVT) inside a solenoidal magnet, enabling tracking, momentum analysis, particle identification by dE/dx, and location of primary and secondary vertices with full azimuthal coverage ($\Delta\Phi = 2\pi$, $|\eta| < 1$). A Central Trigger Barrel (CTB) of scintilllators surrounding the TPC, and Zero Degree Calorimeters (ZDCs) located at ± 18 meters from the interaction point provide a collision geometry trigger, and the ability to selectively veto events according to the number of spectator neutrons going forward. A set of Beam-Beam Counters (BBCs) designed to detect interactions by measuring the forward going charged particle multiplicity are supported on the east and west faces of the STAR magnet. Forward Time Projection Chambers on either side of the interaction vertex provide additional tracking coverage in the acceptance $\Delta\Phi = 2\pi$, $2.5 < |\eta| < 3.8$.

A Barrel Electromagnetic Calorimeter (BEMC) ($\Delta\phi = 2\pi$, $|\eta| < 1$) as well as an Endcap Electromagnetic Calorimeter (EEMC) (($\Delta\Phi = 2\pi$, $1 < \eta < 2$) on one end of the STAR detector will be used to trigger on high pt π^0s and to measure neutral transverse energy, direct photon production, vector mesons, and jets. All the BEMC modules have been installed. Both halves of the endcap electromagnetic calorimeter are installed providing full tower coverage in the endcap acceptance for RHIC run V.

Additional detector components that will be added in 2004 include a Silicon Strip Detector (SSD) and a Photon Multiplicity Detector (PMD). The SSD will comprise a fourth layer of silicon tracking outside the existing three layers of silicon drift detectors which are part of the STAR SVT. It will be used to improve tracking efficiency and background rejection for secondary vertices from hyperon decays and to improve the standalone tracking capability of the silicon vertex tracker for low momentum particles. The Photon Multiplicity Detector is a fine-grained array of detector cells based on gaseous shower counting. It will be used to detect photon showers in the forward acceptance of STAR.

NASA SPACE RADIATION LABORATORY
Home Page http://server.c-ad.bnl.gov/esfd/nsrl

Target Bench in the NSRL Target Room

Beam is incident from the right. In order, from right to left, the instruments on the bench are: An ion-chamber, binary-filter, ion-chamber, dosimetry ion-chamber, EG&G counter, target lift, 256-element ion-chamber, target lift and scintillation counters.

Beam: Booster
Status: Ongoing

NASA SPACE RADIATION LABORATORY (NSRL)

SPOKESPERSON: M. VAZQUEZ

- **Brookhaven National Laboratory**
- **Colorado State University**
- **Columbia University**
- **Duke University**
- **HNRCA**
- **Lawrence Berkeley Naltinal Laboratory**
- **Loma Linda University**
- **Massachusetts General Hospital**
- **Massachusetts Institute of Technology**
- **MRC Radiation & Genome Stability Unit, UK**
- **NASA, Johnson Space Center**
- **NASA, Langley Research Center**
- **NIRS/HIMAC**
- **North Carolina A&T**
- **Oregon Health and Science University**
- **Promega Corporation**
- **Scripps Research Institute**
- **Southampton College**
- **SRI International**
- **Stanford Research Institute**
- **State University of New York at Stony Brook**
- **Texas A&M University**
- **Thomas Jefferson University**
- **University "Federico II", Napoli, Italy**
- **University of Maryland**
- **University of Pennsylvania**
- **University of Rome**
- **University of Texas**
- **Washington University**

A series of radiobiological and physics experiments are performed using the NASA Space Radiation ~~Laboratory. These experiments are part of the NSRL commissioning run sponsored by NASA's Space~~ Radiation Helath Program (SRHP) heavy ion radiobiology research program at BNL.

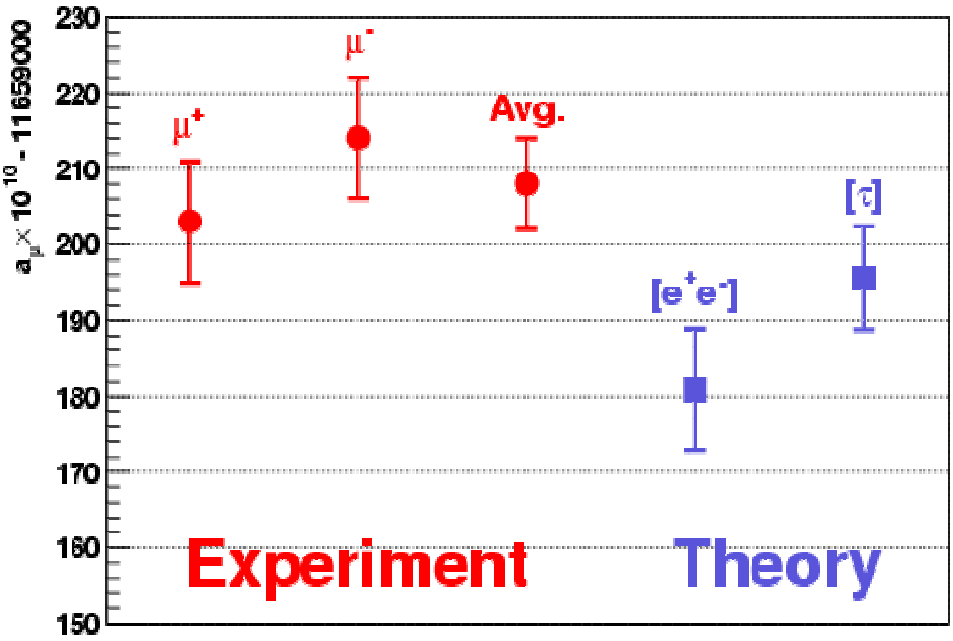
During the summer of 2003 a total of 12 proposals were approved to participate in the NSRL-0 run. Seven institutions from the United States and two from foreign countries (Italy and Japan) were represented, totaling 33 users. More than 900 biological samples were exposed at the NSRL beam line. The full program was completed in 17 days.

During the fall of 2003 a total of 27 proposals were approved for the NSRL-1 run. Twenty-One institutions from the United States and two from Italy were represented, totaling 37 users. More than 2000 biological samples were exposed. This run was completed in 27 days.

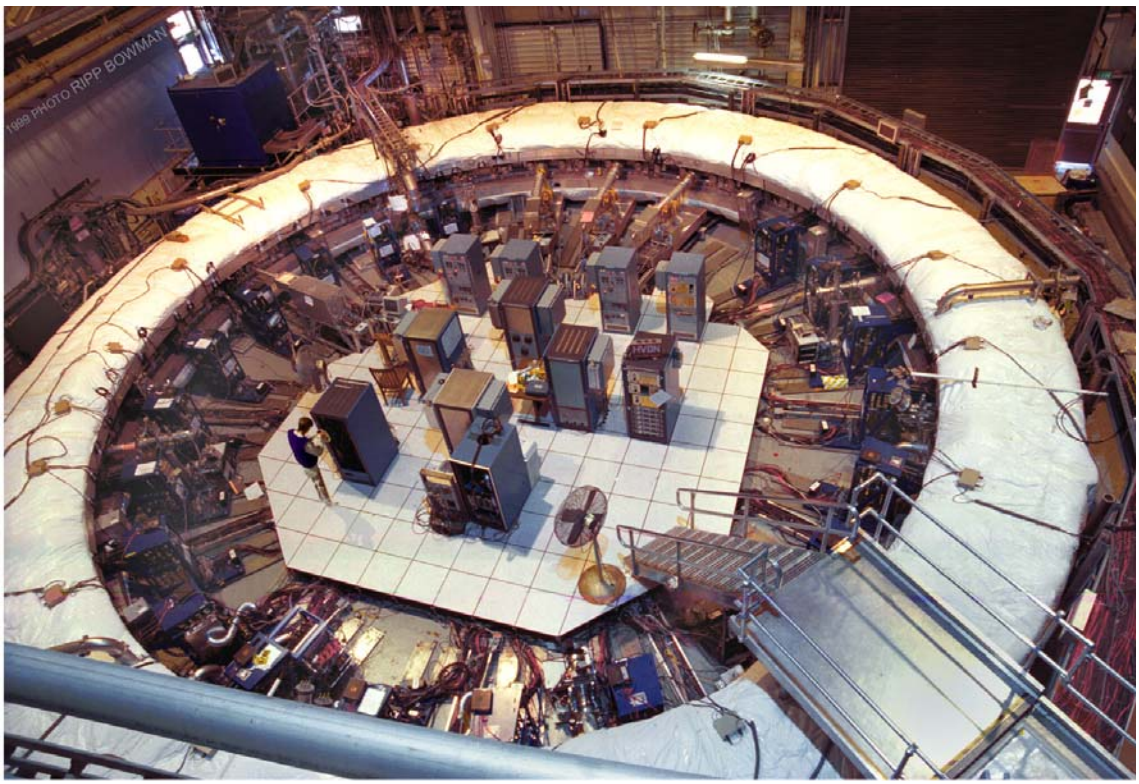
Radiobilogical experiments employed cells, tissues, and intact specimens, which required a complex coordination and planning of their respective logistic support.

During the summer of 2004, (NSRL-3) run was completed using iron and proton beams. A total of 24 proposals from twenty institutions from the United States and 2 from foreign countries (Japan and Italy) were represented, totaling 78 users. More than 800 biological samples were exposed employing 286 hours of beam time (40 hours for in vivo studies, 74.5 hours for in vitro studies and 66 hours for physics experiments). In addition, 6 hours were used for beam development and, 93.5 hours for set-up and dosimetry.

EXPERIMENT 821
Home Page ***http://www.g-2.bnl.gov***



Results from E821 on the anomalous magnetic moment of the positive and negative muons. The relative accuracy on the average is 0.5 parts per million.



Beam: V1
Status: Completed FY 2001
Hours Approved/Charged: 2100/4427

EXPERIMENT 821– A NEW PRECISION MEASUREMENT OF THE MUON G-2 AT THE LEVEL OF 0.35 PPM

SPOKESPERSON: V. HUGHES, W. M. MORSE, B. L. ROBERTS*

- **Boston University -** R.M. Carey, I. Logashenko, J.P. Miller, B.L. Roberts
- **Brookhaven National Laboratory** - J. Benante, H.N. Brown, G. Bunce, G.T. Danby, R. Larsen, Y. Y. Lee, W. Meng, J. Mi, W.M. Morse, C. Ozben, C. Pai, R. Sanders, Y. K. Semertzidis, L. Snydstrup, T. Tallerico, M. Tanaka, D. Warburton
- **Budker Institue for Nucl. Phys. -** V.P. Druzhinin, G.V. Fedotovich, B.I. Khazin, N. Ryskulov, S. Serednyakov, Yu.M. Shatunov, E. Solodov
- **Cornell University** - Y. Orlov
- **Max Planck Institut fur Physik** - U. Haeberlen
- **National Laboratory for High Energy Physics (KEK)** - A.Yamamoto
- **Tokyo Institute of Technology** - M. Iwasaki
- **University of Heidelberg** – K.V.I. Groningen, K. Jungmann, D. von Walter, G. zu Putlitz
- **University of Illinois** - P. Debevec, D.W. Hertzog
- **University of Minnesota** - P. Cushman
- **Yale University** – H. E. Ahn, M. Deile, H. Deng, S. K. Dhawan, A. Disco, F. J. M. Farley, X. Fei, M. Grosse-Perdekamp, V. W. Hughes, D. Kawall, J. Pretz, S. I. Redin, E. P. Sichtermann, A. Steinmetz

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The anomalous gyromagnetic ratio of the muon (g-2) was measured to 0.35 ppm or a factor of 20 times better than it was previously known. The predicted contribution to (g-2) from the first and second order $W^{\pm}$ and Z^0 radiative corrections was predicted to be 1.3 ppm, so this experiment provided a direct test of the electroweak radiative corrections, and hence of the renormalizability of the Glashow-Weinberg-Salam theory. Since a_μ is sensitive to a wide range of non-standard model effects there is a window in which to search for new physics W or muon substructure, super-symmetry and the existence of new gauge bosons are several possibilities. A 14 m diameter superferric muon storage ring is now operational. Data collection began in FY 1997 and was completed in 2001.

* deceased

Beam: C6
Status: Completed FY 2002
Hours Charged/Approved: 795

EXPERIMENT 913 - BARYON SPECTROSCOPY WITH THE CRYSTAL BALL

SPOKESMAN: M. E. SADLER, H. SPINKA, W. B. TIPPENS

- **Abilene Christian University -** R. Bagga, B. Draper, J. Huddleston, D. Isenhower, Z. Mulkey, M. Sadler
- **Argonne National Laboratory** - T. Kasprzyk, H. Spinka
- **Arizona State University** - J. Comfort, K. Craig, A. Ramirez
- **Brookhaven National Laboratory** - T. Kycia*
- **George Washington University -** W. J. Briscoe, A. Shafi
- **Kent State University -** D. M. Manley
- **Petersburg Nuclear Physics Institute-Gatchina** - V. Abaev, V. Bekrenev, S. Kruglov, A. Kulbardis, I. Lopatin, A. Starostin
- **Rudjer Boskovic Institute -**I. Šlaus, I. Supek
- **Valparaiso University** - A. Gibson, D. Grosnick, D.D. Koetke, R. Manweiler, P. Nord, S. Stanislaus
- **University of California-Los Angeles** - M. Clajus, S. McDonald, A. Marusic, B.M.K. Nefkens, M. Pulver, W. B. Tippens
- **University of Colorado -** J. Patterson, J. Peterson
- **Universit at Karlsruhe -** H. Staudenmaier
- **University of Regina** - N. Knecht, G. Lolos, Z. Papandreou

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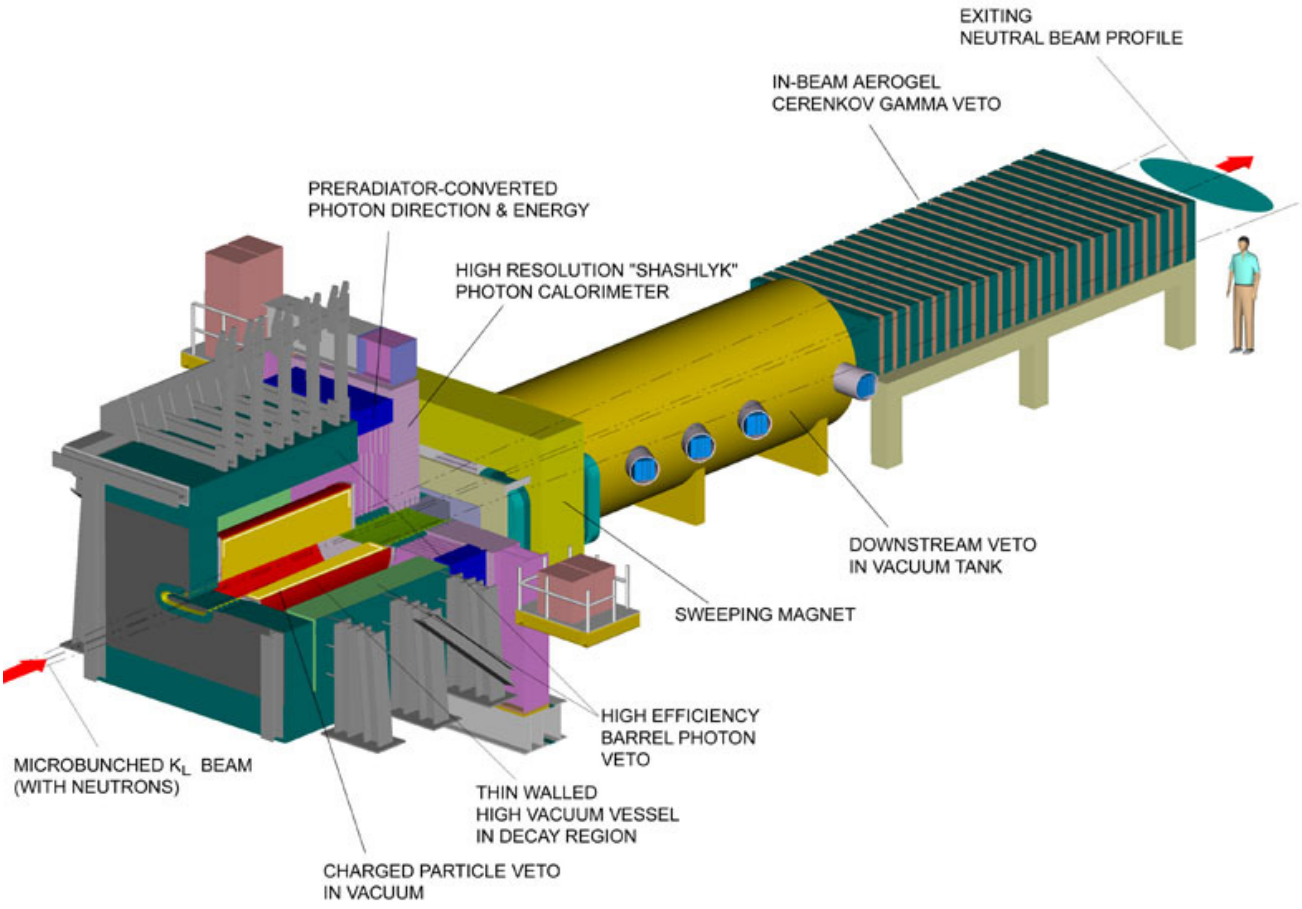
This was a comprehensive experimental program in baryon spectroscopy using the SLAC Crystal Ball detector to make precision measurements of total and differential cross sections for neutral final states in π^-p interactions using pion beams in the momentum range 0.4 - 1.9 GeV/c. The angular distributions of all the neutral final states such as γn, π^o were measured simultaneously. The purpose was to improve the mass, width, and neutral branching fractions for the N^* resonances in this energy region. The Crystal Ball detector is a nearly 4π multi-photon spectrometer, which is used to analyze events by reconstructing the invariant mass and, in conjunction with the measured beam momentum, the missing mass of the produced neutron. The Crystal Ball was located in the C6 beam line during this phase of the experiment. The beam momentum was limited to $\leq$ 750 MeV/c.

* deceased



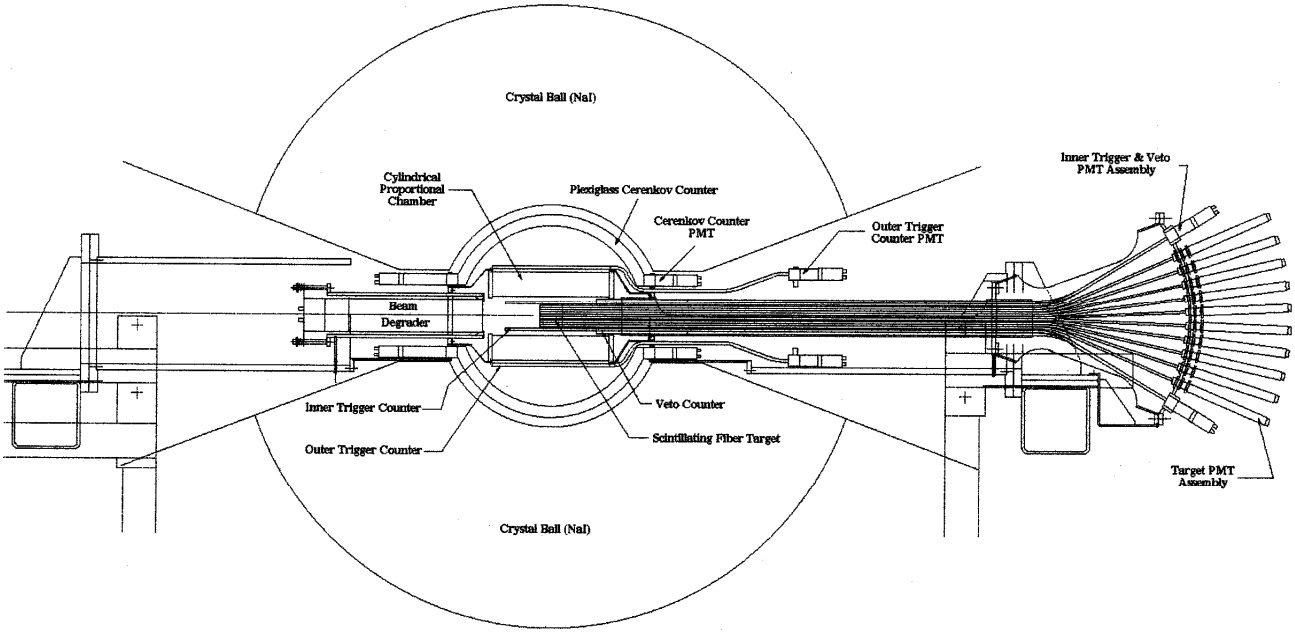
Layout of the $K_L^o \rightarrow \pi^o \nu\bar{\nu}$ experiment

EXPERIMENT 926 – MEASUREMENT OF $K^{o}_{L} \rightarrow \pi^{o} \nu \bar{\nu}$ (KOPIO)

SPOKESPERSON: D. BRYMAN, L. LITTENBERG, M. ZELLER

- **Arizona State University** – J. Comfort
- **Brookhaven National Laboratory -** I-H. Chiang, A. Etkin, J. W. Glenn, D. Jaffe, D. Lazarus, K. Li, L. Littenberg, G. Redlinger, C. Scarlett, M. Sivertz, R. Strand
- **Institute for High Energy Physics-Protvino –** G. Britvich, V. Burtovoy, S. Chemichenko, L. Landsberg, A. Lednev, V. Obraztsov, R. Rogalev, V. Semenov, M. Shapkin, I. Shein, A. Soldatov, N. Tyurin, V. Vassil'chenko, D. Vavilov, A. Yanovich
- **INFN – University of Perugia –** G. Anzivino, P. Cenci, E. Imbergamo, A. Nappi, M. Valdata
- **INR-Moscow** – A. Ivashkin, D. Ishuk, M. Khabibullin, A. Khotjanzev, Y. Kudenko, A. Levchenko, O. Mineev, A. Vasiljev, N. Yershov
- **KEK –** M. Kobayashi
- **Kyoto University** – K. Misouchi, H. Morii, T. Nomura, N. Sasao, T. Sumida
- **Kyoto University of Education –** R. Takashima
- **State University of New York at Stony Brook –** I. Christidi, M.Marx, R. D. Schamberger
- **Thomas Jefferson National Accelerator Facility** - M. Ito
- **TRIUMF** – P. Amaudruz, E. Blackmore, A. Daviel, M. Dixit, J. Doornbos, P. Gumplinger, R. Henderson, T. Numao, R. Poutissou
- **Virginia Polytechnic Institute** - M. Blecher, M. Pitt, B. Vogelaar
- **Yale University –** G. Atoyan, S. K. Dhawan, V. Issakov, H. Kaspar, A. Poblaguev, M. Zeller
- **University of British Columbia** – D. Bryman, M. Hasinoff
- **University of Cincinnati** – K.Kinoshita
- **University of Montreal –** J-P. Martin
- **University of New Mexico** - B. Bassalleck, N. Bruner, D. E. Fields, J. Lowe, T. L. Thomas
- **University of Virginia** – D. Pocanic
- **University of Zurich** – P. Robmann, S. Scheu, P. Truöl

This experiment will be a measurement of the branching ratio for the rare decay $K_L \rightarrow \pi^o \nu\bar{\nu}$. The method employs kaon time-of-flight and full kinematic reconstruction of the π^o to suppress backgrounds to a level well below an anticipated signal in the range of $3 \pm 1.2 \times 10^{-11}$. Construction and operation of this experiment will be funded by the NSF.


Crystal Ball (NaI)
Cylindrical Proportional Chamber
Plexiglass Cerenkov Counter
Cerenkov Counter PMT
Outer Trigger Counter PMT
Inner Trigger & Veto PMT Assembly
Beam Degrader
Inner Trigger Counter
Outer Trigger Counter
Veto Counter
Scintillating Fiber Target
Target PMT Assembly
Crystal Ball (NaI)

Beam: C6
Status: Tests Completed
Hours Approved /Charged: 2280/233

EXPERIMENT 927 – MEASUREMENT OF THE K_{E3}^{+} DECAY RATE AND SPECTRUM

SPOKESPERSON: B. M. K. NEFKENS

- **University of California at Los Angeles -** S. C. McDonald, B. M. K. Nefkens, J. W. Price, W. B. Tippens
- **Joint Inst. for Nuclear Research - Dubna** – A. Efendiev
- **Abilene Christian University -** L. D. Isenhower, M. E. Sadler
- **Argonne National Laboratory -** H. M. Spinka
- **Arizona State University -** J. R. Comfort, K. Craig
- **Rudjr Bošković Inst., Zagreb, Croatia -** M. Batinić, I. Šlaus, I. Supek, A. Švarc
- **University of Colorado –** R. J. Peterson
- **George Washington University –** C. Bennhold, W. J. Briscoe
- **University of Karlsruhe, Germany –** H. M. Staudenmaier
- **Kent State University –** D. M. Manley
- **St. Petersburg Nucl. Phys. Inst., Gatchina –** A. B. Starostin
- **University of Regina, Canada –** G. J. Lolos, Z. Papandreou
- **Valparaiso University –** J. Alyea, D. Grosnick, D. D. Koetke, R.W. Manweiler, S.Stanislaus

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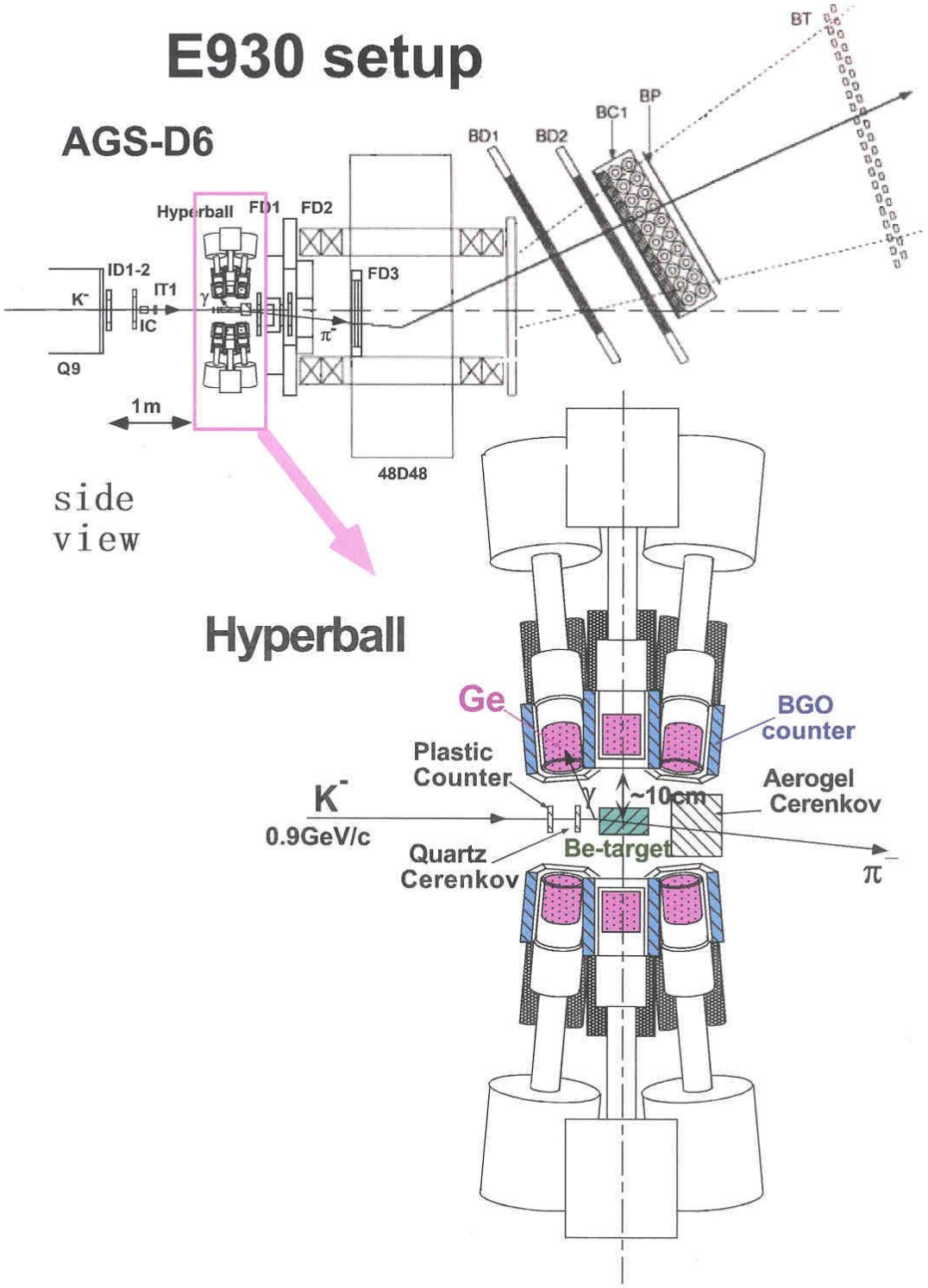
The goal of this experiment is to measure the K_{e3}^{+} decay rate to better than 0.7%. This translates into an absolute determination of V_{us} to better than 0.35%, not including the error in the theoretical evaluation of the small correction for the finite quark masses. Combined with the relatively well known values for V_{ud} and V_{ub}, this provides the most stringent test of the unitarity of the CKM matrix. Among several reasons that such a test is of interest is the proposed existence of supersymmetry (SUSY) particles which are predicted to cause a small deviation from the unitarity relation.


E930 setup
AGS-D6
BT
BP
BC1
BD1
BD2
Hyperball
FD1
FD2
FD3
ID1-2
IT1
IC
K-
γ
π-
Q9
1m
48D48
side
view
Hyperball
Ge
BGO
counter
Plastic
Counter
K-
0.9GeV/c
γ
~10cm
Aerogel
Cerenkov
Quartz
Cerenkov
Be-target
π-

Beam: D6
Status: Partially Complete
Hours Approved /Charged: 1428/1002

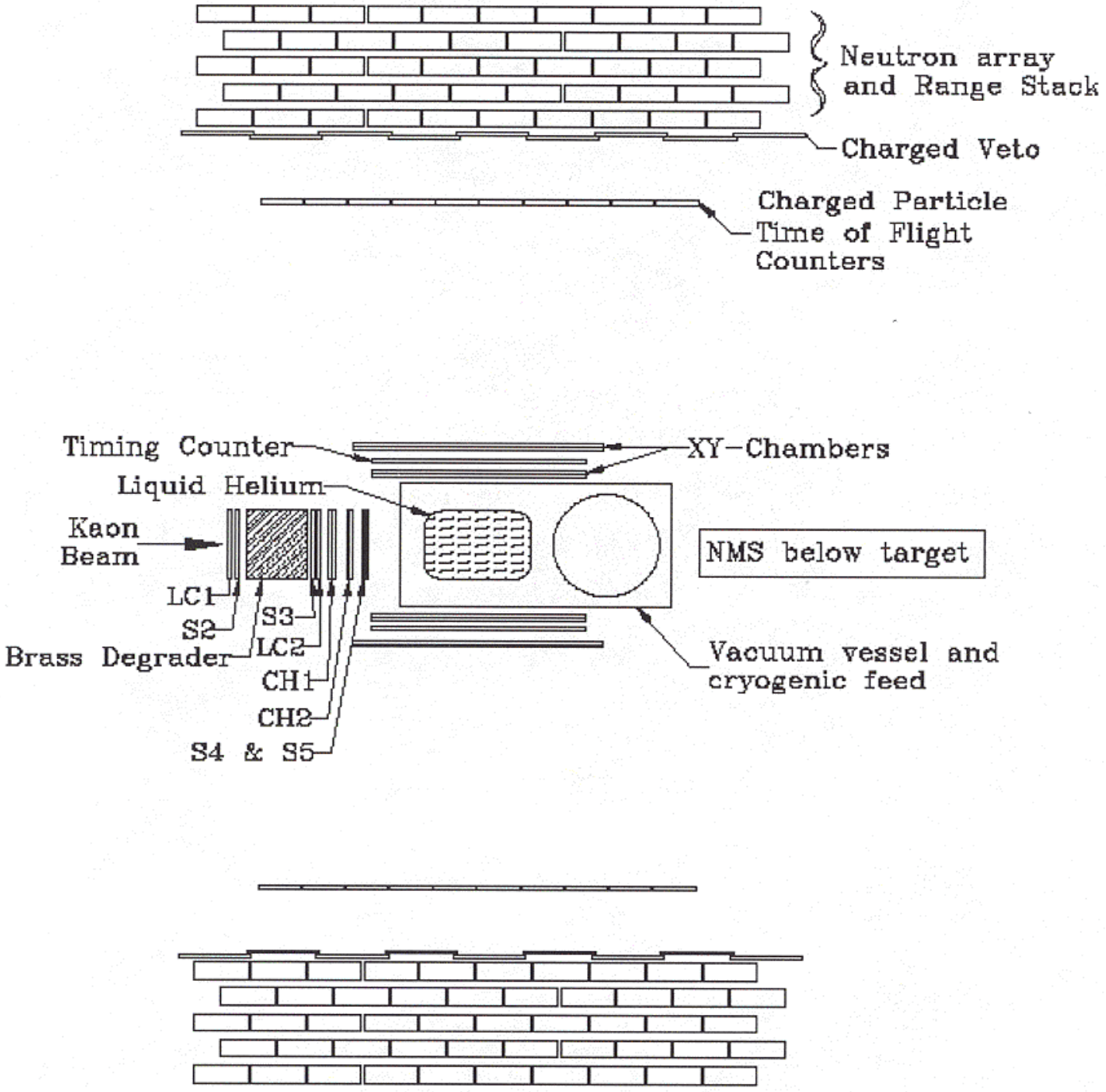
EXPERIMENT 930 – HIGH-RESOLUTION γ SPECTROSCOPY OF HYPERNUCLEI USING LARGE-ACCEPTANCE GERMANIUM DETECTOR

SPOKESPERSON: H. TAMURA

- **Brookhaven National Laboratory** – D.E. Alburger, R.E. Chrien, H. Hotchi, M. May, P. Pile, A. Rusek, R. Sutter
- **Carnegie Mellon University** – P. Eugenio, G.B. Franklin, P. Khaustov, B.P. Quinn, R.A. Schumacher
- **China Institute of Atomic Energy** – S.H. Zhou
- **Hampton University** – L. Gran, L. Tang, L. Yuan, X.F. Zhu
- **Kyoto University** – H. Akikawa, K. Imai
- **North Carolina A&T University** - R. Sawafta
- **Osaka University** - S. Ajimura
- **Tohoku University** – Y. Miura, J.Sasao, H. Tamura, M. Ukai
- **University of Freiburg** – J. Franz, H.Schmitt
- **University of Tokyo -** K. Tanida

As part of the data set for this experiment, a sample of ^{10}B was studied in an attempt to look for the low-lying transition predicted by theory to be about 200 keV. In a confirmation of the null result by Chrien, et al., as part of the AGS E781 experiment, no transition was observed. This null result has an important consequence for the p-shell analysis of Millener, Gal, and others, and suggests the necessity of including effective 3-body forces due to Λ - Σ mixing in the theoretical interpretation.

From the oxygen target, several high-energy transitions were observed from the decay of $^{16}_{\Lambda}$O to low-lying states of that hypernucleus. The fine structure observed near 6 MeV will yield important information on the tensor interaction in the p-Shell. Furthermore, the weak decay of $^{16}_{\Lambda}$O to $^{15}_{\Lambda}$N is now being analyzed with the help of predictions by Millener and Motoba.



E931 Schematic Plan View

Beam: C8
Status: Completed FY 2002
Hours Approved /Charged/: 1537/1630

EXPERIMENT 931 – STUDY OF THE ΔI = ½ RULE IN THE WEAK DECAY OF S-SHELL HYPERNUCLEI

SPOKESPERSON: D. DEHNHARD, E. HUNGERFORD, B. QUINN, V. ZEPS

- **Arizona State University -** J. R. Comfort, C. Gauland
- **Brookhaven National Laboratory** - R. E. Chrien, M. May, P. H. Pile, A. Rusek, R. Sutter
- **Carnegie-Mellon University** - G. B. Franklin, B. Quinn
- **CEBAF** - L. Tang
- **Christopher Newport College** - J. Gerald
- **George Washington University -** W. Briscoe
- **Los Alamos National Laboratory** - J. Amann, D. Boudrie, C. Edwards, B. F. Gibson, C. Morris, J. O'Donnell, J-C. Peng, A. Thiessen
- **Louisiana Tech University -** M. Barakat, K. Johnston
- **North Carolina A&T** - R. Sawafta
- **R. Boskovic Institute** - I. Supek
- **Tohoku University** - O. Hashimoto
- **University of California at Los Angeles -** B. Nefkens, W. B. Tippens
- **University of Colorado -** G. A. Peterson
- **University of Houston** - M. Ahmed, X. Cui, A. Empl, E. V. Hungerford, A. Lan, B. Mayes, L. Pinsky
- **University of Kentucky -** V. Zeps
- **University of Maryland -** P. G. Roos
- **University of Minnesota** - D. Dehnhard
- **University of Texas at Austin -** G. Glass, C. Fred Moore, H. Ward
- **University of Zagreb -** D. Androic, M. Furic, T. Petkovic, M. Planinic

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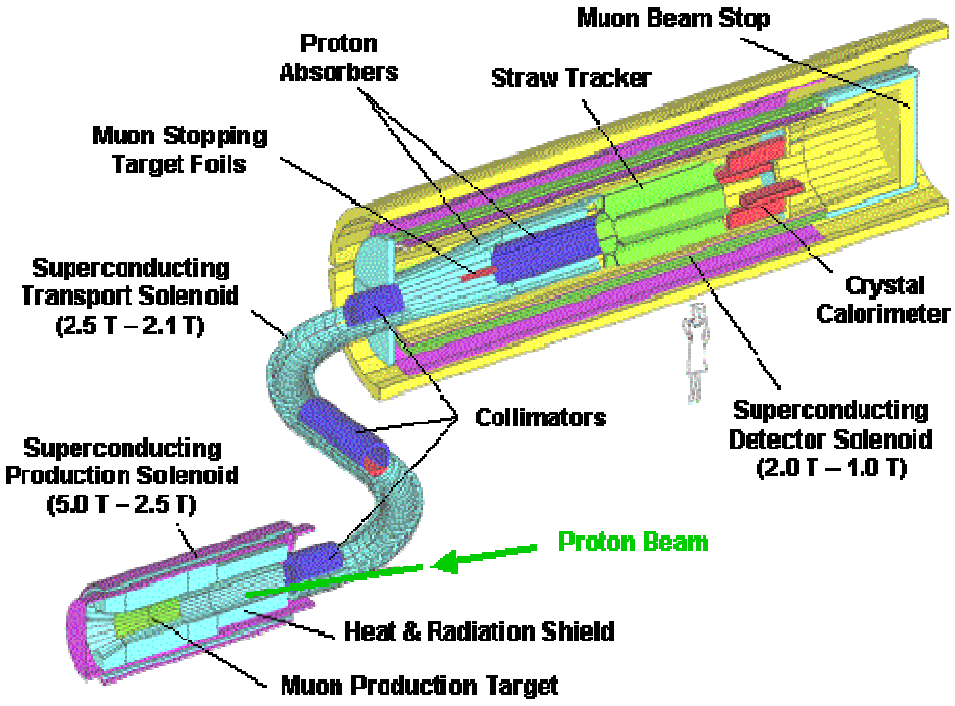
This experiment addressed an unresolved, fundamental question of "why" and "when" to apply the ΔI= ½ rule to the weak decay of strange hadrons. The opportunity existed to determine if this apparently universal rule applies to the non-mesonic weak decay of a Λ, by studying particle emission from the weak decay of ${}^{4}_{\Lambda}\mathrm{He}$. The experiment used the NMS spectrometer and the LESBII beam line.


Muon Beam Stop
Proton Absorbers
Straw Tracker
Muon Stopping Target Foils
Superconducting Transport Solenoid (2.5 T – 2.1 T)
Crystal Calorimeter
Collimators
Superconducting Detector Solenoid (2.0 T – 1.0 T)
Superconducting Production Solenoid (5.0 T – 2.5 T)
Proton Beam
Heat & Radiation Shield
Muon Production Target

Beam: A3
Status: 2005 Construction Start
Hours Approved/Charged: 4000/4

EXPERIMENT 940 – A SEARCH FOR $\mu^- N \rightarrow e^- N$ WITH SENSITIVITY BELOW 10^{-16} MUON-ELECTRON CONVERSION (MECO)

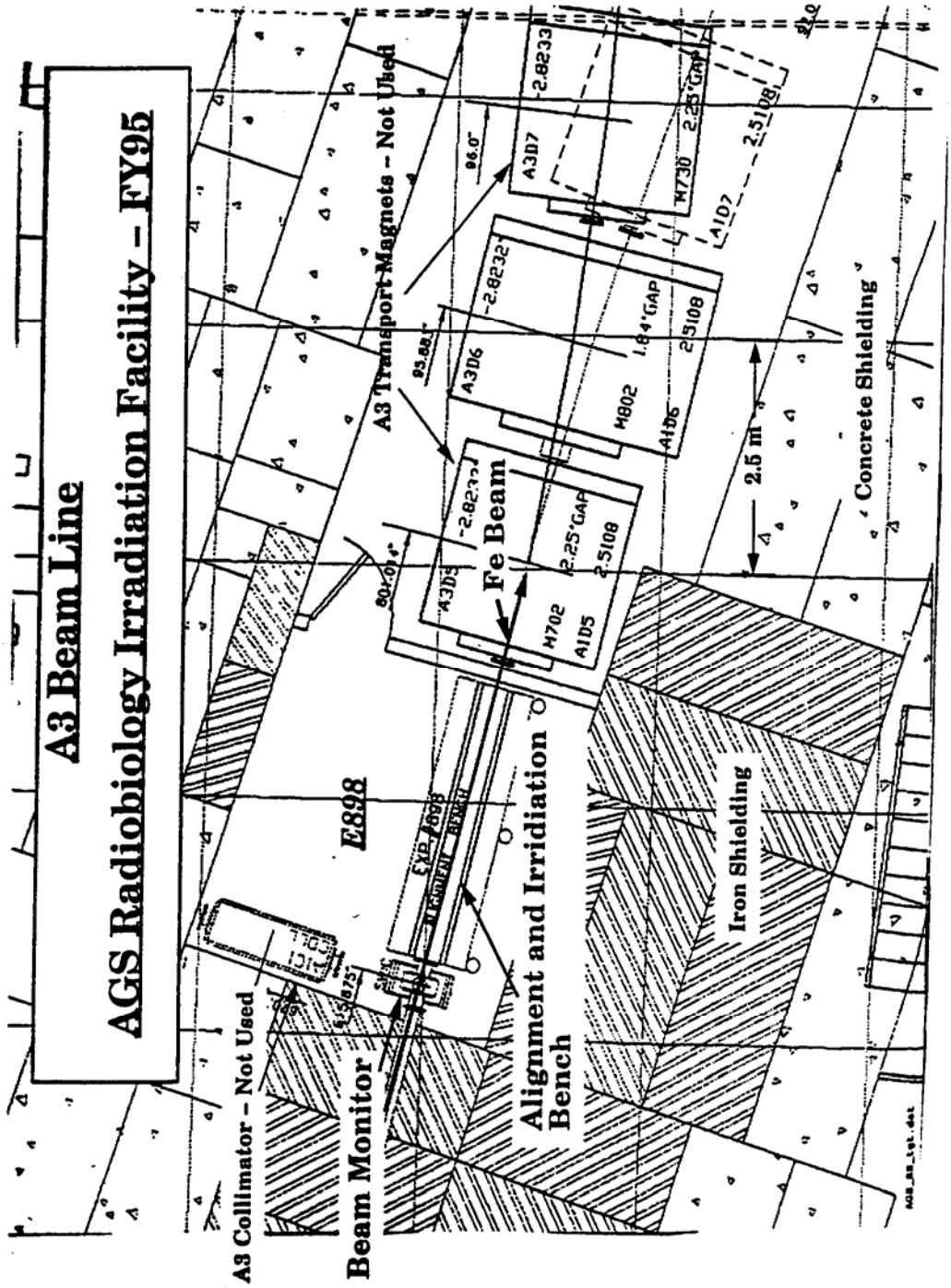
SPOKESPERSON: W. MOLZON

- **Boston University** – J. Miller, O. Rind, B. L. Roberts
- **Brookhaven National Laboratory** – M. Brennan, K. Brown, G. A. Greene, L. X. Jia, W. Marciano, W. Morse, P. Pile, Y. Semertzidis, P. Yamin
- **Institute of Nuclear Research** - R. Djilkibaev, V. Lobashev, A. N. Toropin
- **New York University** – A. Mincer, P. Nemethy, J. Sculli
- **Osaka University** – M.Aoki, Y. Kuno, A. Sato
- **Pennsylvania State University** – W. Walkes
- **Syracuse University** – R. Holmes P. Souder
- **William and Mary College** – M. Eckhause, J. Kane, R. Welsh
- **University of California at Irvine** – C. Chen, M. Hebert, W. Molzon, JH. Popp, V. Tumakov
- **University of Houston** – E. Hungerford, K. A. Lan, L. Pinsky, J. Wilson
- **University of Massachusetts** – K. Kumar

This experiment proposes to search for the process $\mu^- N \rightarrow e^- N$ with a significantly improved sensitivity with respect to past and proposed future searches. Interest is in searching for violations of additive quantum numbers associated with each type of lepton. Violation of these quantum numbers is commonly referred to as lepton flavor violation (LFV). The process will provide direct evidence of muon and electron number violation.

The experiment will be conducted in a new μ beam line produced using a pulsed proton beam. The proton energy will be chosen in the range 8-20 GeV to optimize the μ flux per unit time and minimize operating costs of the experiment. The expected sensitivity, normalized to the kinematically similar process of μ capture on the nucleus, is one event for a branching fraction of 2×10^{-17}.

Construction and operation of this experiment will be funded by the NSF.


A3 Beam Line
AGS Radiobiology Irradiation Facility – FY95
A3 Transport Magnets – Not Used
Fe Beam
Concrete Shielding
2.5 m
Iron Shielding
Alignment and Irridiation Bench
Beam Monitor
A3 Collimator – Not Used
E898

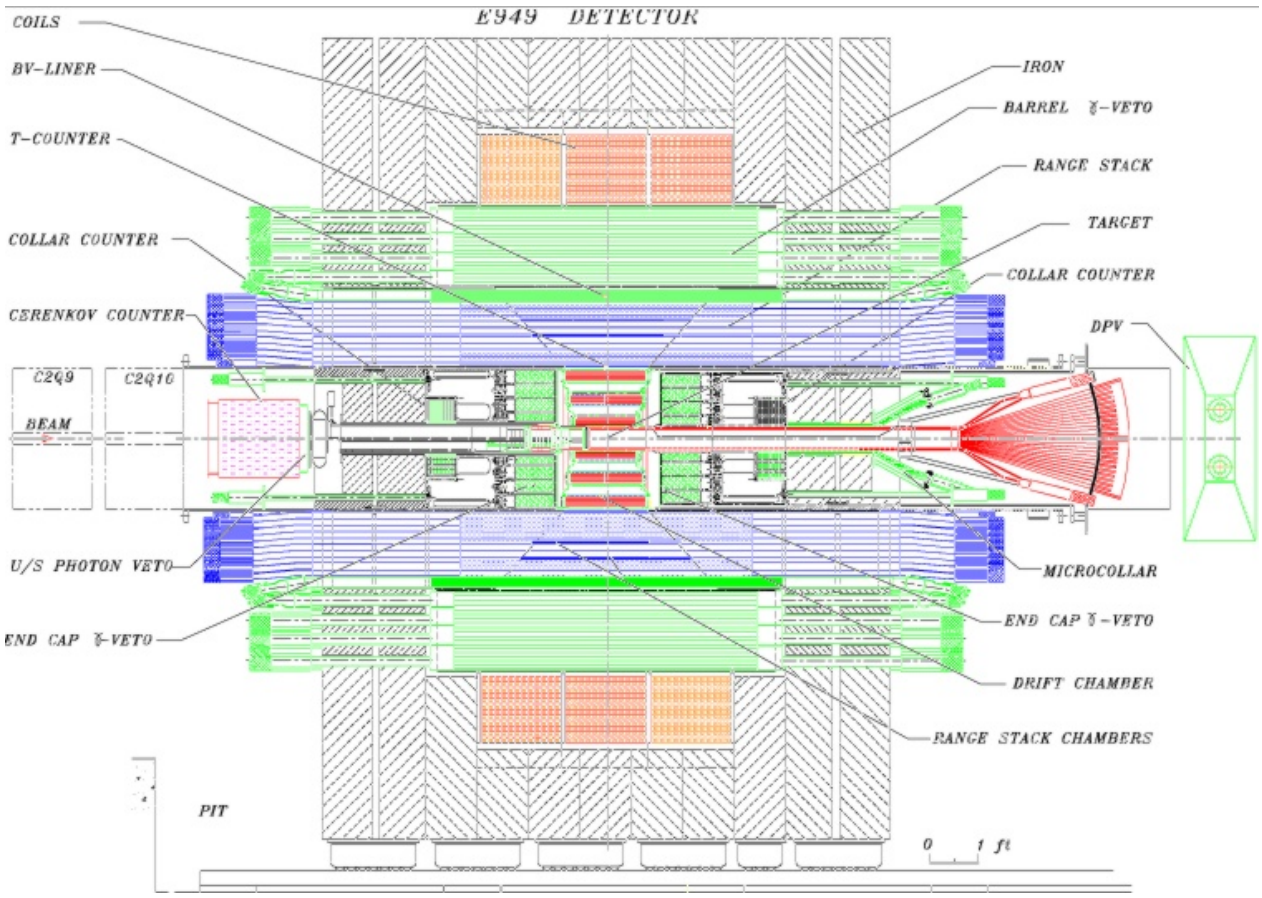
Beam: A3
Status: Completed FY 2000
Hours Approved /Charged/: 300/335

EXPERIMENT 947 – NASA – RADIOBIOLOGY

SPOKESPERSON: M. VAZQUEZ

- **Alabama A&M University -** P. Kale
- **Brookhaven National Laboratory -** B. Sutherland, M. Vazquez
- **Case Western Reserve University –** H. Evans
- **Colorado University –** J. Bedford, C. Waldren
- **Columbia University – T**. K. Hei
- **John Hopkins Medical Inst. –** J. Dicello
- **Lawrence Berkeley Laboratory –** H. Barcellos-Hoff, J.Miller, P. Cooper, A. Kronenberg
- **Los Alamos National Laboratory –** D. J.Chen
- **Pacific Northwest National Laboratory –** N. Metting
- **Texas A&M University –** R. R. Sinden
- **University of Maryland -** B.Rabin
- **Washington State University –** A. L. Brooks

This was part of a continuing program of experiments in radiobiology, funded by the National Aeronautics and Space Agency (NASA) as part of their space-related research efforts in the life sciences.



Elevation View of the E949 Detector

Beam: C4
Status: Partially Complete
Hours Approved /Charged: 6000/2402

EXPERIMENT 949 – AN EXPERIMENT TO MEASURE THE BRANCHING RATIO $B(K^+ \to \pi^+ \nu \bar{\nu})$

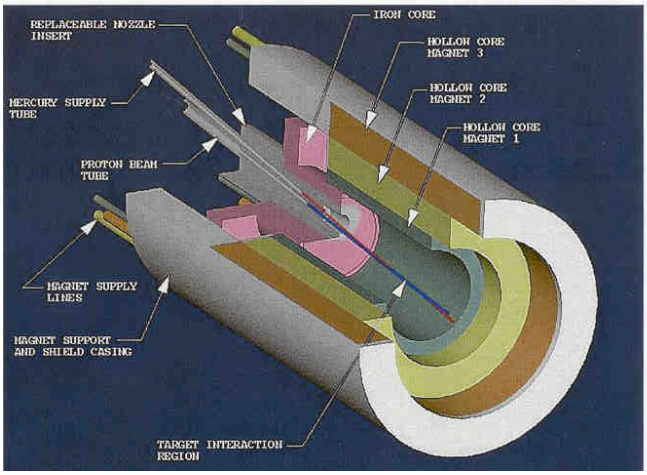
SPOKESPERSON: D. BRYMAN, S. KETTELL, S. SUGIMOTO

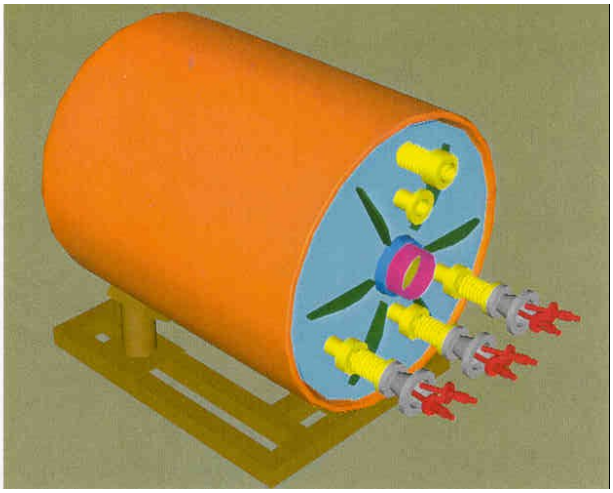
- **Brookhaven National Laboratory** – B. Bhuyan, I-H. Chiang, M. V. Diwan, J.S. Frank, J. S. Haggerty, D.E. Jaffe, S. H. Kettell, K.K. Li, L.S. Littengerg, G. Redlinger, R.C. Strand, B. Viren
- **Centre for Subatomic Research-U. Alberta -** P. Kitching
- **Fermi National Accelerator Laboratory** – P.S. Cooper, E. Ramberg, R.S. Tschirhart
- **Fukui University** - M. Miyajima, Y. Tamagawa
- **Inst. High Energy Physics** – A. Artamonov, A. Kozjevnikov, A. Kushnirenko, L. Landsberg, V. Mukhin, V. Obraztsov, D. Patalakha, S. Petrenko, D. Vavilov
- **Inst. Nuclear Research** – A.P. Ivashkin, M.M. Khabibullin, A.N. Khotjantsev, Y.G. Kudenko, A.S. Levchenko, O.V. Mineev, N.V. Yershov
- **Japan Atomic Energy Research Inst.** – N. Muramatsu
- **KEK -** S. Kabe, M. Kobayashi, T.K. Komatsubara, K. Omata, T. Sato, T. Sekiguchi, S. Sugimoto, T. Tsuneimi, Y. Yoshimura**,** T. Yoshioka
- **Kyoto University** – T. Fujiwara, K. Mizouchi, T. Nomura, N. Sasao
- **National Defense Academy of Japan** – T. Shinkawa
- **Osaka Univrsity -** M. Nomachi
- **Research Center for Nucl. Phys., Osaka University** – T. Nakano
- **TRIUMF -** P. C. Bergbusch, E. W. Blackmore, S. Chen, J. Hu, A. Konaka, J. A. Macdonald, J. Mildenberger, T. Numao, J-M. Poutissou, R. Poutissou
- **University of British Columbia** – D.A. Bryman
- **University of New Mexico** – B. Bassalleck, B. Lewis, J. Lowe
- **State University of New York at Stony Brook** – I.-A. Christidi, M. D. Marx

A new, more precise measurement of the $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ branching ratio is proposed in this experiment. Improvements to the E787 apparatus and running mode will be made to reach a sensitivity of (8-14) x 10^{-12}, an order of magnitude below the Standard Model prediction. This should result in a determination of $|V_{td}|$ to better than 27%.

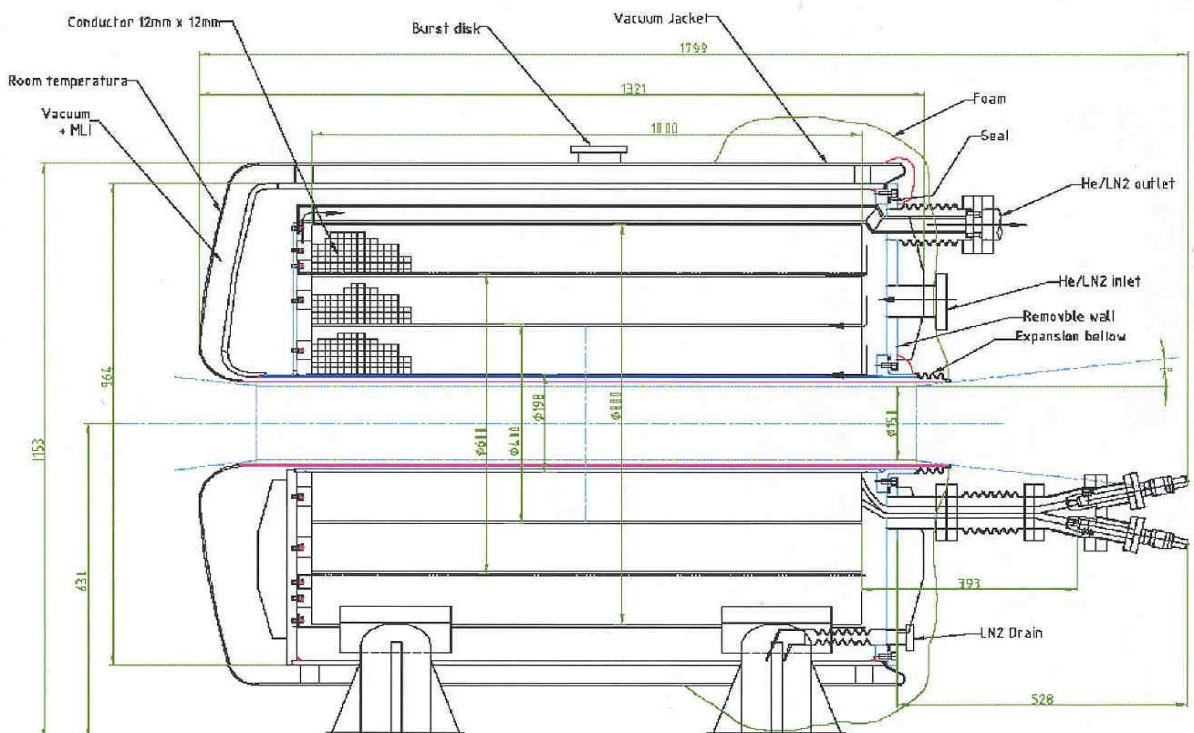
EXPERIMENT 951
Home Page ***http://www.hep.princeton.edu/mumu/target/***

High Field Pulsed Solenoid





- 15 T with 4.5 MW Pulsed Power
- 15 cm warm bore
- 70^o K Operation
- 1 m long beam pipe



Beam: A3
Status: Partially Complete
Hours Approved /Charged: 3600/185

EXPERIMENT 951 – AN R&D PROGRAM FOR TARGETRY AND CAPTURE AT A MUON-COLLIDER SOURCE

SPOKESPERSON: K. T. MCDONALD

- **Argonne National Laboratory –** A. Hassanein
- **Brookhaven National Laboratory** – K. A. Brown, R. C. Fernow, C. C. Finfrock, D. Gassner, G. A. Greene, S. A. Kahn, B. J. King, H.G. Kirk, R. B. Palmer, A. F. Pendzick, R. Samulyak, J. Scaduto, N. Simos, P. Theiberger, T.Y.F. Tsang, H. Wang, R. Weggel
- **CERN** – D. L. Bernadon, A. Fabich, C. Johnson, J. Lettry, H. Ravn
- **Fermi National Accelerator Laboratory** – N. V. Mokhov
- **Lawrence Berkeley National Laboratory** – Y. Fukui, M. A. Green, L. L. Reginato
- **Michigan State University** – A. Zeller
- **National High Magnetic Field Laboratory** – J. R. Miller
- **Oak Ridge National Laboratory** – D. L. Beshears, M. C. Cates, T. A. Gabriel, J. R. Haines, B. W. Riemer, P. T. Spampinato, C.- C. Tsai
- **Joseph Henry Laboratories, Princeton U.** – C. Lu, K. T. McDonald

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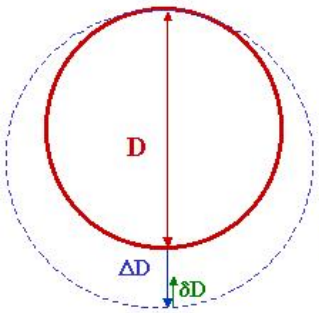
The R&D program investigates targetry issues for a muon-collider source consisting of the initial studies of liquid (and solid) target materials with a proton beam at the AGS. Studies of a liquid-metal jet entering a 20-T magnet at the Natl. High Magnetic Field Lab (NHMFL) in Florida as well as studies of a full-scale liquid-metal jet in a beam of 10^{14} protons per pulse, but without magnetic field are being done. Studies are done of a liquid-metal jet + proton beam + 20-T pulsed solenoid magnet and studies of a 70MHz rf cavity downstream of the target in the proton beam, but without a magnet around the rf cavity. Characterization of the pion yield downstream of the target + rf cavity and simulation of the performance of liquid-metal targets; thermal shock, eddy currents are studied.

EXPERIMENT 952
Home Page http://www.hep.umn.edu/numass

Conceptual Details and Numerical Scale



Forward-going decay muons orbit a larger diameter by ΔD

CM

$\nu_\mu \longleftarrow \pi \longrightarrow \mu$

$q = 29.7$ MeV/c

$$\frac{\Delta D}{D} = \frac{p_\mu - p_\pi}{p_\pi} = \frac{0.7\ \text{MeV/c}}{3\ \text{GeV/c}} = \frac{3.26\ \text{mm}}{14\ \text{m}}$$

Non-zero neutrino mass shrinks ΔD by

$$\frac{\delta D}{D} = \frac{-m_\nu^2}{2\,q\,m_\pi}$$

Corresponding to 0.04 mm for current limit

Beam: V1
Status: Approved
Hours Approved /Charged:

EXPERIMENT 952 – AN IMPROVED LIMIT ON THE MUON NEUTRINO MASS FROM PION DECAY IN FLIGHT

SPOKESPERSON: P. B. CUSHMAN

- **Boston University –** R.M. Carey, J.P. Miller, O. Rind, B.L. Roberts
- **Brookhaven National Laboratory** – H. Brown, G. Bunce, J.W. Glenn, Y.Y. Lee, W. Meng, W.M. Morse, C. Ozben, Y.K. Semertzidis
- **New York University** – P. Nemethy
- **Newman Laboratory, Cornell University** – Y. Orlov
- **Physik Inst. der University of Heidelberg** – K. Jungmann, G. zu Putlitz
- **University of Illinois** – P.T. Debevec, D.W. Hertzog, C.J.G. Onderwater
- **University of Minnesota** – P. B. Cushman, A. Heering, I. Kronkvist
- **Yale University –** F.J.M. Farley, V.W. Hughes*

The g-2 Storage Ring is a unique facility for precision measurements that test the standard model. This experiment hopes to improve the muon neutrino mass limit by a factor of 20 (from 170 keV down to 8 keV) which will be the largest factor improvement made in any neutrino species mass within the last 20 years. It utilizes the storage ring as an extremely uniform spectrometer to compare the parent pion and daughter muon momenta from the $\pi \rightarrow \mu\nu$ decay in flight. The experiment avoids multiple scattering limitations by transforming the momentum measurement into a position measurement; the edge of the μ radial distribution referenced on an event-by-event basis to the parent π depends on the mass of the recoiling ν.

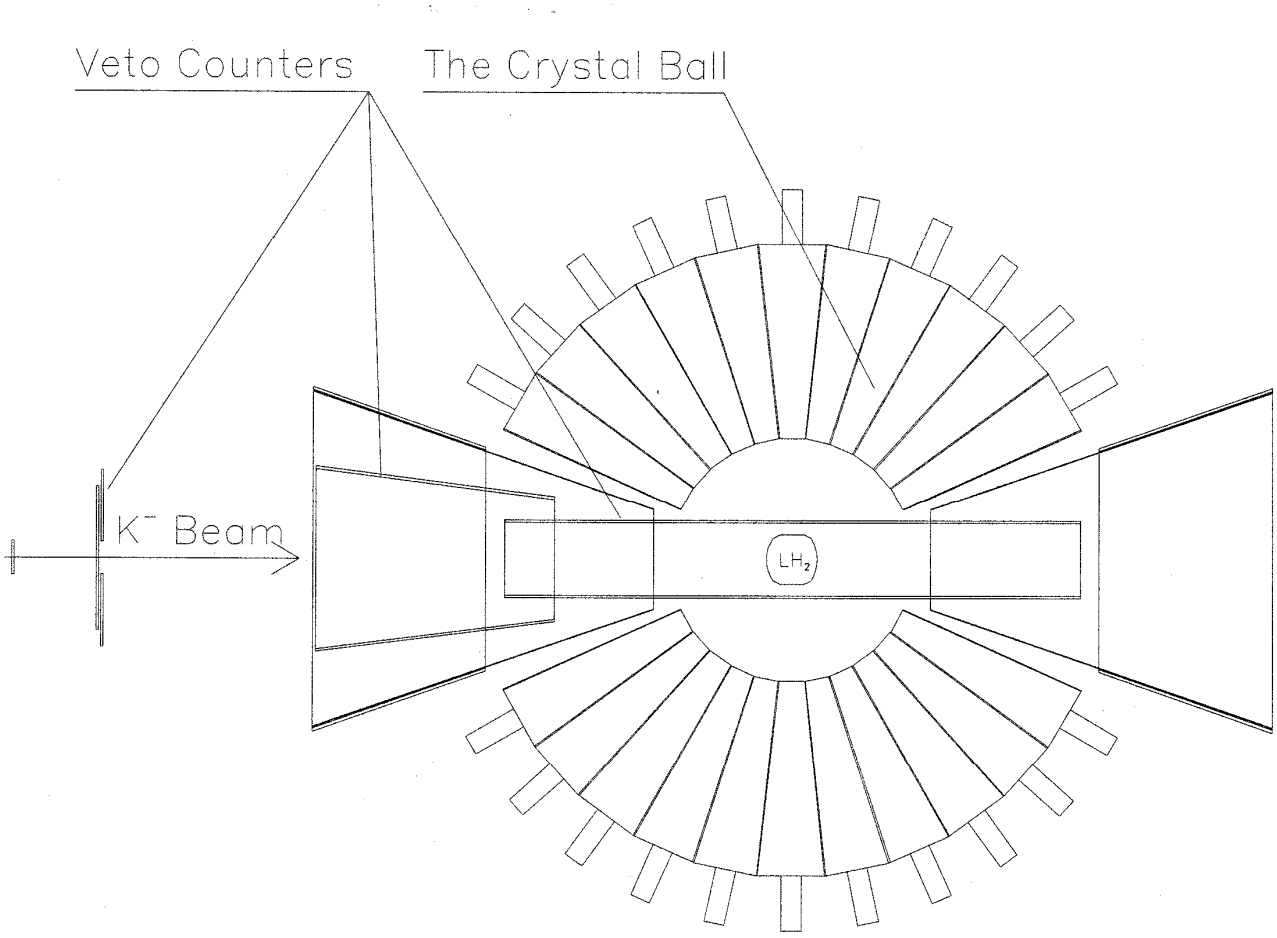
In order to put pions on orbit in the ring, 5.2 cm of beryllium degrades the pion energy. Silicon micro-strip detectors on either side of the degrader record the position of the particle exiting through S1 and then entering the other side through S2 one cycle later. Because of the excellent magnetic field uniformity (better than 1 ppm), pions which do not decay end up back at the same position on the detector from which they started, no matter what their initial momentum and angle, whereas the daughter muons will cover a range of positions. The resulting radial distribution, referenced on a particle-by-particle basis to the parent pion, will consist of a large narrow peak at zero for undecayed pions and a broad distribution representing the decay products. The fact that the pions return to the origin makes the experiment relatively insensitive to the initial pion distribution. The width of the undecayed pion peak provides an in situ calibration of the orbital parameters and magnetic field uniformity.

Since the muons which decay in the forward direction actually have a higher momentum than the parent pion, they will traverse a larger diameter circle. Muons that are produced in the forward direction at a point halfway around the ring will therefore have the maximum radial displacement from the parent pion initial impact point when they return to the detector. In fact, they represent the maximum displacement of any daughter muon with any decay angle. Thus, the radial distribution of the decay muons referenced on a particle-by-particle basis to the radial position of their parent pions has a well-defined edge. If the neutrino has mass, this will reduce the energy of the forward-going muon and shrink the edge of the decay muon distribution by an amount which is sensitive to the square of the neutrino mass, but relatively insensitive to the uncertainty in the pion mass.

* deceased

EXPERIMENT 953

Home Page ***http://bmkn8.physics.ucla.edu/Crystalball/crystalball.html***



Beam: C6
Status: Approved

EXPERIMENT 953 – NEUTRAL HYPERON SPECTROSCOPY WITH THE CRYSTAL BALL

SPOKESPERSON: D. M. MANLEY, B.M.K. NEFKENS, H. SPINKA

- **Abilene Christian University –** L. D. Isenhower
- **Argonne National Laboratory** – H. M. Spinka
- **Arizona State University** – J. R. Comfort
- **George Washington University** – W. J. Briscoe
- **Kent State University** – D.M. Manley
- **Petersburg Nucl. Phys. Institute** – V.V. Abaev, V.S. Bekrenev, N.G. Kozlenko, S.P. Kruglov, A.A. Kulbardis, I.V. Lopatin
- **Rudjer Boškovic Institute** – I. Šlaus, I. Supek, A. Švarc
- **University of California** – B.M.K. Nefkins, S.N. Prakhov, J.W. Price, A.B. Starostin, W.B. Tippens
- **University of Colorado –** R.J. Peterson
- **University Karlsruhe –** H.M. Staudenmaier
- **University of Maryland –** D.C. Peaslee
- **Uppsala University –** H. Calen, S. Kullander, A. Kupsc, B. Morosov
- **Valparaiso University –** D. Grosnick, D.D. Koetke, R.W. Manweiler, T.D.S. Stanislaus

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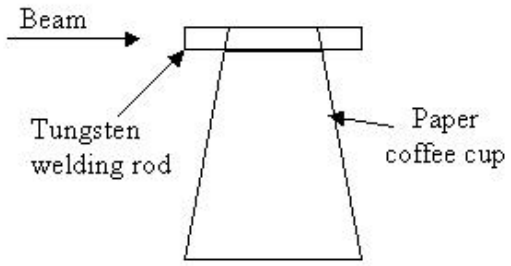
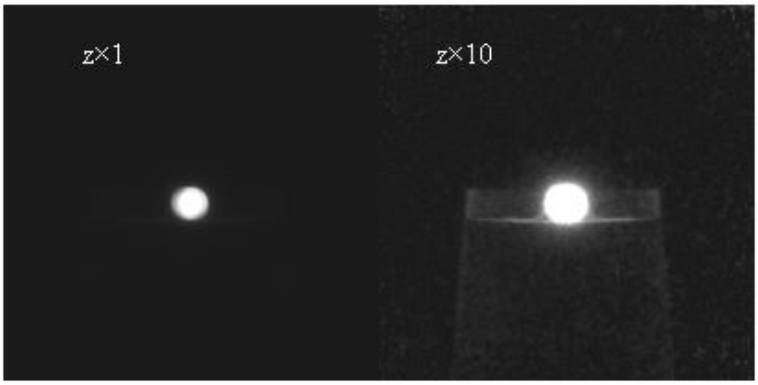
The spectroscopy of hyperons is a fundamental testing ground for nonperturbative QCD models. This proposal plans to perform measurements of absolute differential cross sectons for $K^- p \to \gamma\Lambda$, $K^- p \to \gamma\Sigma^0$, $K^- p \to \pi^0\Lambda$, $K^- p \to \pi^0\Sigma^0$, $K^- p \to K^0_s n$, and $K^- p \to \eta\Lambda$ in the momentum rante 500-750 MeV/c. These measurements will complete the program originally approved as Phase A of AGS E914.

AGS Experiment 955

Sophisticated pencil beam experiment

24 Gev protons
2×10^{10} protons
4.6 mrad Ferm collimator





Beam: U
Status: Completed FY 2001
Hours Charged: 65

EXPERIMENT 955 – PROTON RADIOGRAPHY AT THE AGS IN THE U-LINE

SPOKESPERSON: C. L. MORRIS, E. P. HARTOUNI

- **Bechtal Nevada –** R. T. Thompson, R. P. Liljestrand, D. V. Morgan, A. Whiteson
- **Brookhaven National Laboratory –** G. A. Greene, A. Hanson, J. Scaduto
- **Lawrence Livermore National Laboratory** – E. Ables, M. B. Aufderheide, P. D. Barnes Jr., E. P. Hartouni, H-S. Park, R. A. Soltz, L. Wiley, D. M. Wrigth
- **Los Alamos National Laboratory** – K. R. Alrick, K. L. Buescher, D. J. Clark, C. J. Espinoza, J. J. Gomez, N. T. Gray, G. W. Hart, M. Y. Hockaday, G. E. Hogan, N. S.P. King, A. R. Mathews, J.B. McClelland, K. B. Morley, C. L. Morris, C. T. Mottershead, K. H. Mueller, M. M. Murrag, P. D. Pazuchanics, J.S. Sarracino, A. Saunders, M. D. Wilke, J. D. Zumbro

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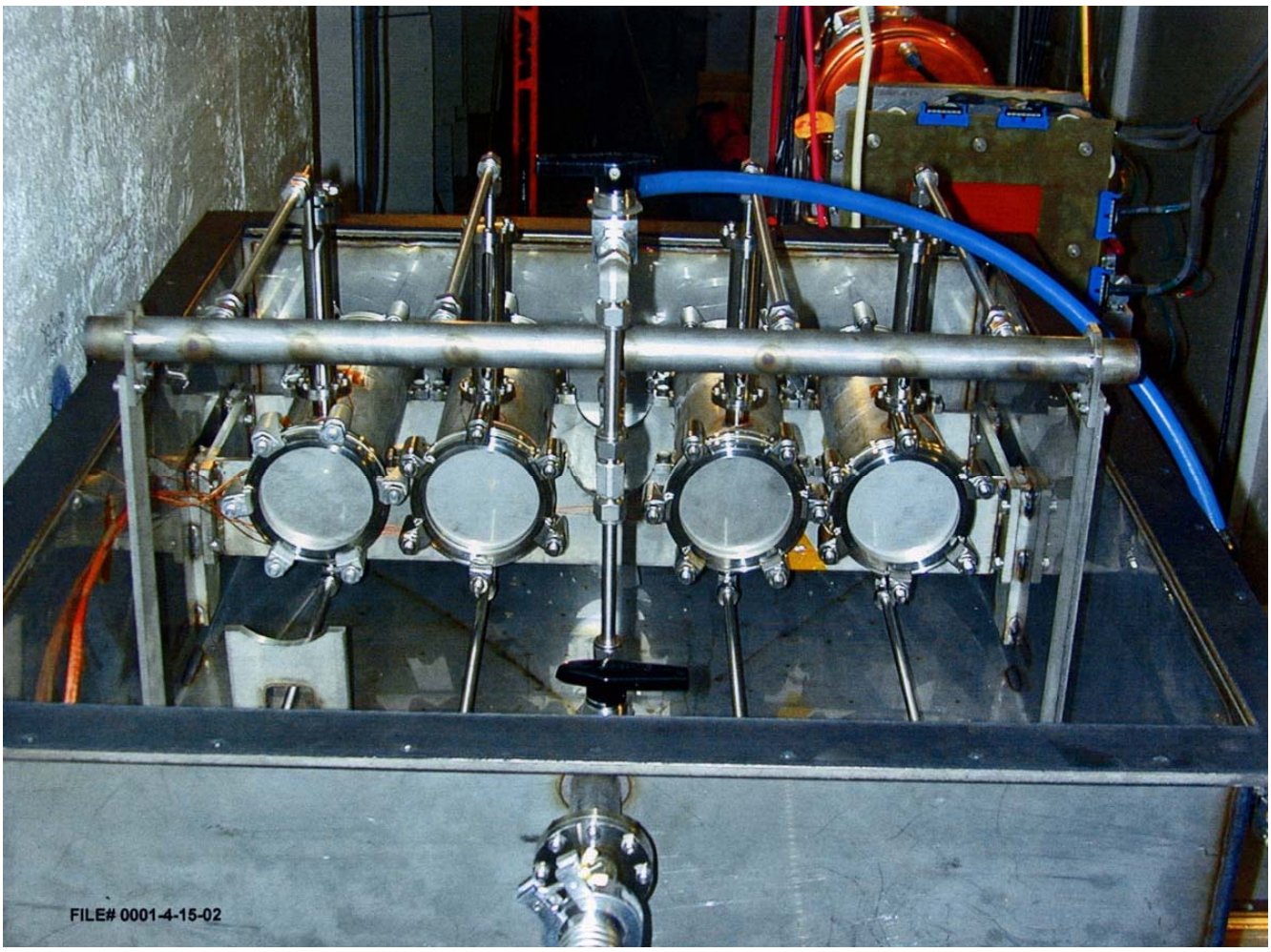
Since experiment 933 was originally proposed, several additional questions have arisen about using protons for advanced radiography. This experimental program included measurements on a wide range of step wedges to validate the separation of Coulomb and nuclear scattering using different collimators to demonstrate material ID. These measurements were made using both active detectors (cameras) and image plates (to ensure sufficient range). Data were taken with the full range of available collimators for completeness. Domonstrations of material ID on classified thick objects were done. Background characterizaton and mitigation for the active cameras were done. Sources and shielding techniques to reduce the star background in the CCD cameras will be studied. Data were taken at a number of angles on suitable test objects aimed at providing input to help define the number of axis needed for an AHF. These data were taken on both image plates and with active cameras, with a greater emphasis on the active camera data in order to most efficiently use the beam time.


FILE# 0001-4-15-02

Beam: C7
Status: Completed FY 2001
Hours Charged: 90

EXPERIMENT 956 – SPALLATION NEUTRON STUDIES AT THE AGS

SPOKESPERSON: J. B. HASTINGS, G. BAUER, N. WATANABE

- **Argonne National Laboratory** – J.M. Carpenter
- **Brookhaven National Laboratory** – J. B.Hastings
- **Forschungszentrum Centre - Julich** – H. Conrad
- **Japan Atomic Energy Research Institute** – N. Watanabe
- **Los Alamos National Laboratory** – G. Russell
- **Oak Ridge National Laboratory** – J. Haines
- **Paul Scherrer Institute** – G. Bauer

There was a worldwide effort in the planning, design and construction of the next generation neutron sources. The focus was on spallation sources with average powers of up to 5 MW and single pulse energies of 100 kjoules. The critical design issues centered around the heavy metal target. All of the design studies considered liquid mercury as a first choice. The AGS is a unique resource to study in detail neutron production, pressure wave mitigation and other important issues in target design. It is the only proton source in the world with the energy per pulse equal to the proposed future sources. The initial studies on a Hg target system have confirmed the unique role of the AGS. The experiment continued the measurements of the pressure wave behaviour under peak power loading and evaluated mitigation measures. Another critical area is advanced moderator performance as well as materials studies for moderator containment. To carry out these studies it is important to develop a solid target that was passively safer as a neutron source. This target was tested and used in the second and third years of the program. Studies of a novel moderator (methane pellet bed) and slab moderator configurations were done. These efforts completed the establishment of a spallation neutron test facility capable of the full range of R&D from the target through the moderator and up to and including advance detector development.

Dr. Mauro Belli setting up a sample to be exposed to iron ions

Beam: A3
Status: Completed FY 2001
Hours Approved /Charged: 300/146

EXPERIMENT 957 – NASA RADIOBIOLOGY

SPOKESPERSON: M. VAZQUEZ

- **Brookhaven National Laboratory -** R. Setlow, B. Sutherland, M. Vazquez
- **Case Western Reserve University –** H. Evans
- **Colorado University –** J. Bedford, C. Waldren
- **Columbia University –** T. K. Hei
- **Human Nutrition Research Center on Aging –** J. Joseph
- **John Hopkins Medical Inst. –** J. Dicello, D. Huso
- **Lawrence Berkeley Laboratory –** H. Barcellos-Hoff, J.Miller, P. Cooper, A. Kronenberg, B. Rydberg
- **Loma Linda University –** L. Green, G. Nelson
- **NASA Headquarters –** W. Schimmerling
- **NASA Johnson Space Center –** F. Cuccinota
- **National Inst. of Health, Rome Italy –** F. Antonelli**,** M. Belli, G. Simone
- **NSCORTLBNL-CSU –** J. Kinnison, D. Stephens
- **New York University Medical Center –** F. Burns
- **Prairie View A&M University –** R. Wilkins
- **Texas A&M University –** L. Braby, J. Lupton
- **University California – San Fran. –** B. Fouladi, J. Murnane
- **University "Federico II", Napoli –** M. Durante
- **University of Maryland -** B.Rabin
- **University Pennsylvania –** J. Gerwitz
- **University of Rome, Thor Vergara –** V. Bidoli, M. Cosolino, L. Narici, W.Sanita
- **University of Texas Health Sciences –** M. Natarajan
- **University Tokyo –** A. Sima

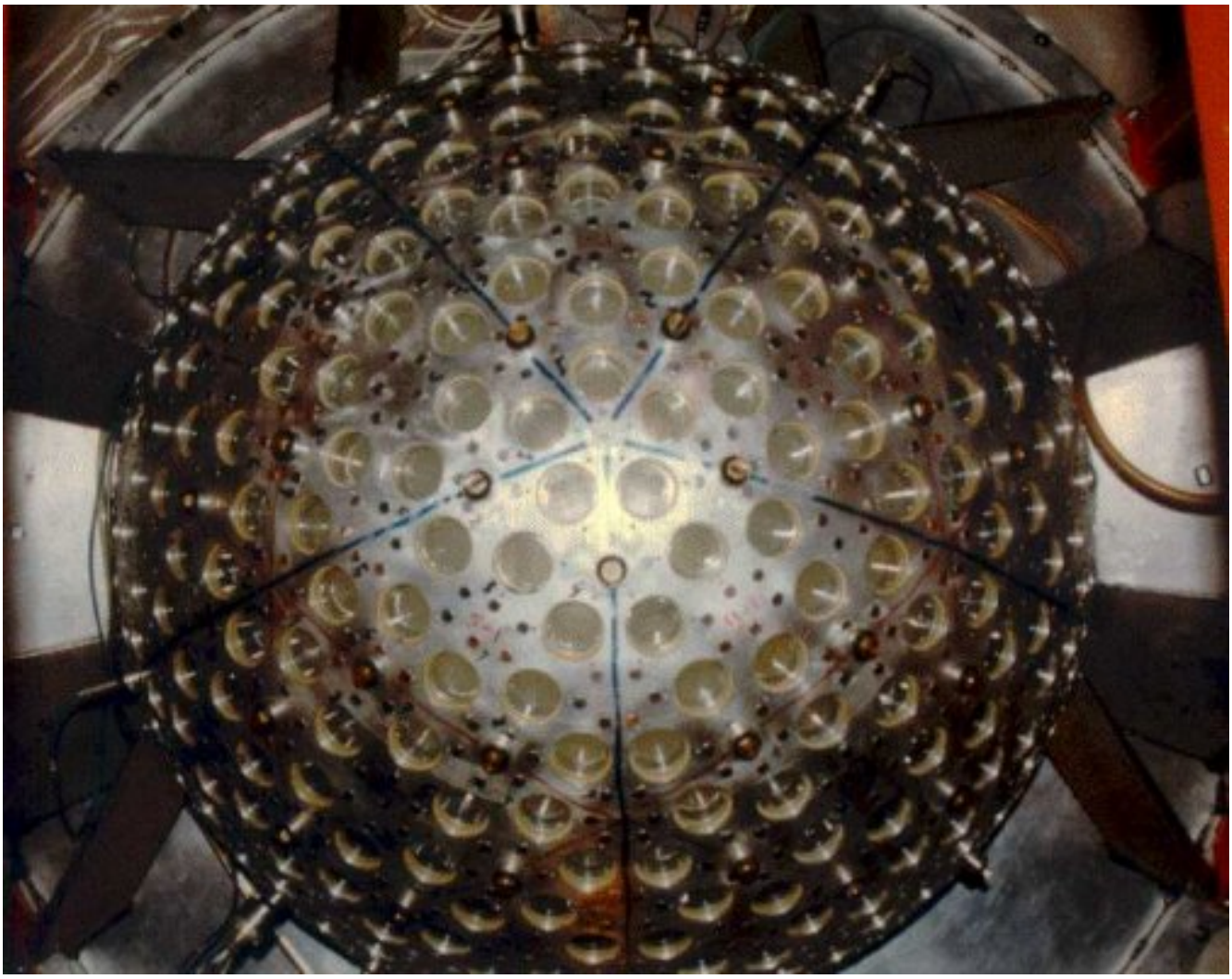
During the Winter of 2000 a series of radiobiologial and physics experiments were performed using BNL's AGS to accelerate iron ion beams. These experiments were part of the seventh consecutive run sponsored by NASA's Space Radiation Program (SRHP) heavy ion radiobiology research program at BNL.

The AGS provided iron beams with an energy of 1 GeV/nucleon (1.046 GeV/nucleon, LET: 148 keV/μm), for biology and physics experiments. The dose/rates used were as low as 10 cGy/min and as high as 15 Gy/min. The spill rate employed was 30 spills/min with a duration of 500-600 msec/spill. The spill fluence (particles/spill) was 1 x 10^8 (max) and 1.5 x 10^5 (min). The intensities (particles/cm^2/sec on target) used during the run were 1 x 10^8 (max) and 400 (min). A 7.5cm diameter beam spot was employed as a nominal spot for the majority of the exposures. For larger samples (animals), an elliptical spot was used (up to 9cm).

Radiobiological experiments employed cells, tissues, and intact specimens, which required a complex coordination and planning of their respective logistic support. Biological studies used human, mouse, rat and hamster

cell lines, human-hamster hybrid cell lines, tumor cell lines and intact specimens (rodents and fish). Physics experiments involved the exposure of solid-state detectors and spacecraft materials.

EXPERIMENT 958
Home Page ***http://bmkn8.physics.ucla.edu/Crystalball/crystalball.html***



Beam: C6
Status: Completed FY 2002
Hours Approved /Charged: 400/310

EXPERIMENT 958 – PION CHARGE-EXCHANGE CROSS-SECTIONS AT LOW ENERGIES

SPOKESPERSON: M.E. SADLER, J. COMFORT

- **Abilene Christian University –** L. D. Isenhower
- **Argonne National Laboratory** – H. M. Spinka
- **Arizona State University** – J. R. Comfort, K.Craig, T. Ramirez
- **George Washington University** – W. J. Briscoe, A. Shafi
- **Karlsruhe University** – H. Staudenmeier
- **Kent State University** – D. M. Manley, J. Olmsted
- **Petersburg Nucl. Phys. Institute** – V.V. Abaev, V.S. Bekrenev, N.G. Kozlenko, S.P. Kruglov, A.A. Kulbardis
- **Rudjer Boškovic Institute** –I. Supek
- **University of California** – B.M.K. Nefkins, N. Phaisangitisakul, S.N. Prakhov, J.W. Price, A.B. Starostin
- **University of Colorado –** R.J. Peterson
- **University of Karlsruhe –** H.M. Staudenmaier
- **University of Maryland –** D.C. Peaslee
- **University of Regina –** N. Knecht, G. Lolos, Z. Papandreou
- **Uppsala University –** H. Calen, T. Johanson, A. Kupsc, U.Wiedner
- **Valparaiso University –** D. Groznick, D. D. Koetke, R.Manweiler, S. Stanislaus

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The experiment measured the cross-section and angular distributions for the $\pi^-p\rightarrow\pi^0 n$ reaction with the Crystal Ball spectrometer for momenta between 50-180 MeV/c. The motivation for this was to provide accurate data to explore isospin invariance in the πN system, to supercede existing data that do not agree well with partial-wave

analysis (PWAs) and to complement differential cross-section and analyzing power data for $\pi^+ p \rightarrow \pi^+ p$ and $\pi^- p \rightarrow \pi^0 n$. By providing high-quality results for the charge-exchange reaction, the amplitudes for πN interactions can be defined more precisely. This will enable more reliable extractions of the up-down quark mass difference and the sigma term.

EXPERIMENT 960
Home Page http://www.bnl.gov/medical/NASA/

Beam: A3
Status: Completed FY 2002
Hours Approved /Charged: 150/162

EXPERIMENT 960 – NASA RADIOBIOLOGY

SPOKESPERSON: M. VAZQUEZ

- **Brookhaven National Laboratory** - P. Bennett, A. Billups, M. Bruneus, L. Estevez, P. Guida, M. Hada, S. Koslovsky, D. Monteleone, S. Otto, R.Setlow, J. Jardine, B. Sutherland, O. Thomas, J. Trunk, M. Vazquez
- **Columbia University –** E. Hall, J. Koniarek, B. Worgul
- **Human Nutrition Research Center on Aging, MA –** A. Eggleston, D. Jenkins, J. Joseph, J. McEwen, B. Rabin, B. Sukitt-Hale, S. Szprengiel
- **Lawrence Berkeley Laboratory –** A. Chatterjee, L. Heilbronn, W. Holley, J.Miller, R.P. Sigh, P. Wilson, C. Zeitlin
- **Loma Linda University –** B. Bianski, L. Green, S. Jones, W. Kennedy, T. Loring Meir, G. Nelson, A. Obenaus, M. Pecaut, A. Rainer, A. Smith,
- **NASA, Johnson Space Center –** F. Cucinotta, K. George, S. Gonda, P. Sagamti, V. Willingham, H. Wu
- **NASA, DC Headquarters** – W. Schimmerling
- **National Inst. of Health – Rome, Italy –** M. Belli, P. Scampoli, G. Simone
- **Texas A&M University –** L. Braby, J. Ford, T. Good, C. Henderson, A. Houck, J. Lupton, N. Popovic, L. Sanders, S. Taddeo, N Turner, M. Young Hong
- **University of California at San Francisco –** R. Eltanal, B. Fouladi, J. Murnane
- **University "FedericoII" Napoli, Italy –** M. Durante, G. Grossi
- **University of Maryland -** B. Rabin
- **University of New York Medical Center –** F. Burns, J. Xu
- **University of Pennsylvania** – J. Donahue, J. Gerwitz, A. Kennedy, M. Stanislaus, S. Wan, J. Ware
- **University of Tokyo –** A. Shima

This was part of a continuing program of experiments in radiobiology, funded by the National Aeronautics and Space Agency (NASA) as part of their space-related research efforts in the life sciences. A series of radiobiological and physics experiments were performed using the AGS to accelerate iron ion beams. These experiments are referred to as BNL/AGS-Run 8.

Radiobiological experiments employed cells, tissues, and intact specimens, which required a complex coordination and planning of their respective logistic support. Biological studies used human, mouse, rat and hamster cell lines, human-hamster hybrid cell lines, tumor cell lines and intact specimens (rodents and fish). Physics experiments involved the exposure of solid-state detectors and spacecraft materials. The full program was completed in nine days.

EXPERIMENT 961
Home Page

Beam: V1
Status: Completed FY 2001
Hours Approved/Charged: 1200/0

EXPERIMENT 961– STUDY OF DOUBLE-Λ HYPERNUCLEI BY SEQUENTIAL PIONIC DECAYS

SPOKESPERSON: T. FUKUDA, A. RUSEK, R. E. CHRIEN

- **Brookhaven National Laboratory –** R. E. Chrien, S. H. Kahana, M. May, P. Pile, A Rusek, R. Sutter
- **Carnegie Mellon University –** A. Berdoz, D. Carman, P. Eugenio, G. B. Franklin, P. Khaustov, P. Koran, C. Meyer, K. Paschke, B. P. Quinn, R. A. Schumacher
- **Hampton University –** L. Gran, L.Tang, L.Yuan
- **KEK –** T. Nagae, H. Outa, M. Sekimoto
- **Institute for Nuclear Research, Russia –** A. Kourepin, M. Prokhabatilov, V. Rasin, K. Shileev
- **Kyoto University –** H. Akikawa, A. Ichikawa, K. Imai, K. Yamamoto
- **Osaka University –** S. Ajimura, T. Kishimoto, H. Kohri, S. Minami, Y.Shimizu
- **Temple University –** Z. Meziani
- **Pusan National University –** J. K. Ahn
- **TRIUMF –** C. A. Davis,
- **Osaka Electro-Communication University –** T. Fukuda
- **University of Freiburg –** H. Fischer, J. Franz, H. Schmitt
- **University of Manitoba –** C. A. Davis, M. Landry
- **University of New Mexico –** B. Bassalleck
- **University of Tokyo –** H. Hotchi, K. Kubota, T. Miyachi, J. Nakano, T. Tamagawa, K. Tanida

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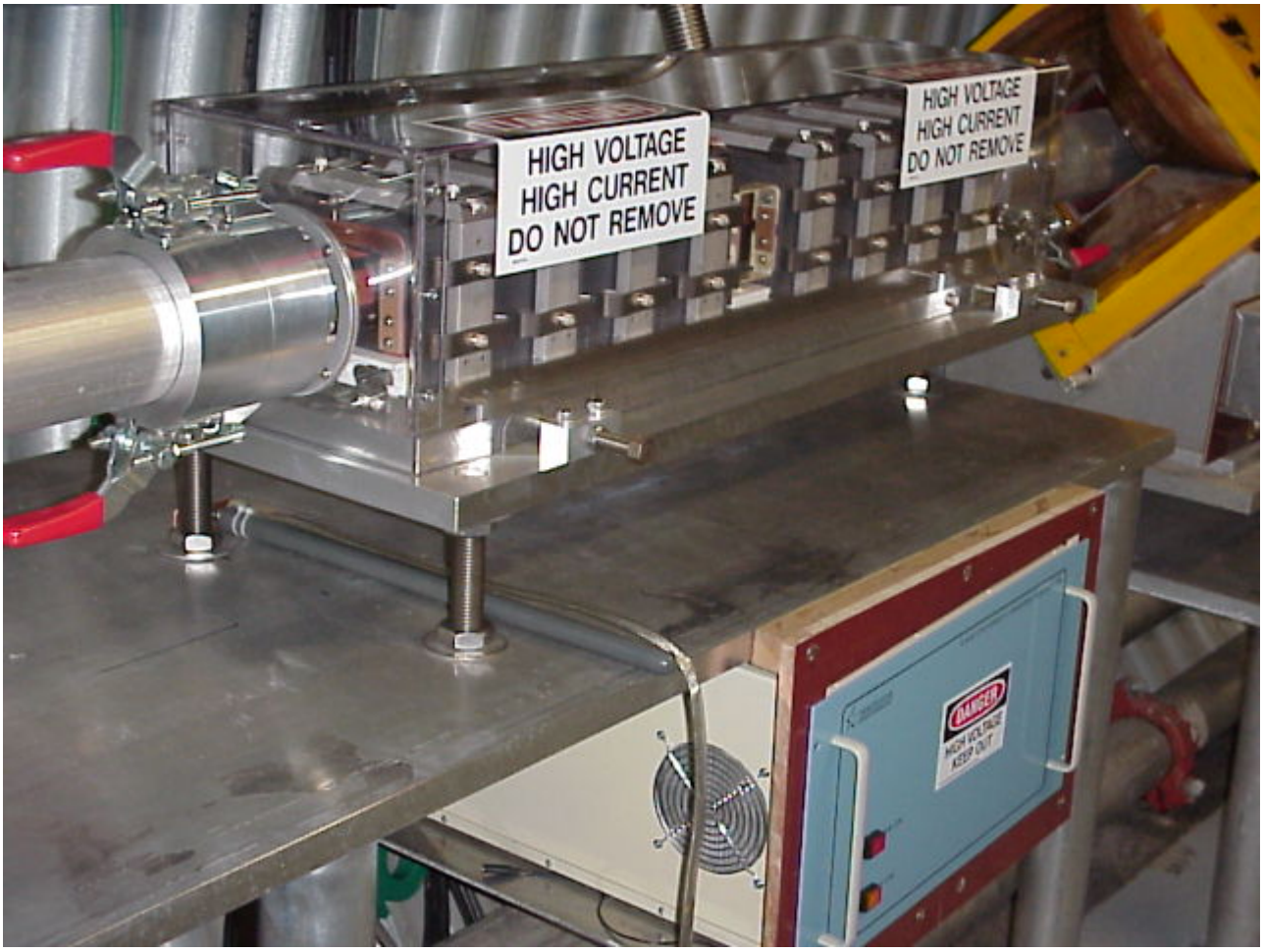
The study of double-Λ hypernuclei (S=-2) provides unavailable information concerning the Λ-Λ force, which is important in order to understand the baryon-baryon interaction in a unified way, and in particular, for its applicaton to multi-strange systems, such as hyperon-mixed neutron stars and strangelets. However, the experimental studies on such systems have been quite limited.

The method of detecting sequential pionic decays to identify S=-2 hypernuclides was tested in E906, and the published results showed that the cylindrical detector system constructed for E906 was capable of detecting relatively large quantities of double-Λ hypernuclides. This experiment confirmed and expanded on the findings of E906, using the same technique, with important modifications and additions, imporivng both the momentum resolution and the signal-to-background ratio. The use of a different target, ^{7}Li, in place of the ^{9}Be used in E906 eliminated almost all the ambiguities in interpreting the data.

EXPERIMENT 962

Home Page http://www.g-2.bnl.gov/index.shtml

Sweeper Magnet



Beam:
Status: Approved
Hours Approved /Charged:2000/0

EXPERIMENT 962 – PRECISE MEASUREMENT OF THE POSITIVE MUON ANOMALOUS MAGNETIC MOMENT

SPOKESPERSON: B. L. ROBERTS

- **Boston University –** R.M. Carey, E. Efstathiadis, M.F. Hare, F.Krienen, I. Logashenko, J.P. Miller, J.M. Paley, O. Rind, B.L. Roberts, L.R. Sulak, A. Trofimov
- **Brookhaven National Laboratory –** H.N. Brown, G. Bunce, G.T. Danby, R. Larsen, Y.Y.Lee, W. Meng, J. Mi, W.M. Morse, D. Nikas, C.S. Özben, R. Prigl, Y.K. Semertzidis, D. Warburton
- **Budker Institute –** V.P. Druzhinin, G.V. Fedotovich, D. Grigoriev, B.I. Khazin, I. Logashenko, N. Ryskulov, Yu. M. Shatunov, E. Solodov
- **Cornell University, Newman Laboratory, –** Y. Orlov
- **Fairfield University –** D. Winn
- **KEK –** A. Yamamoto
- **Physikalisches Inst. Der U. Heidelberg –** A.Grossman, K. Jungmann, G. Zu Putlitz, P. Von Walter, D. Zimmerman
- **Univeristy of Illinois – Urbana-Champaign–** P.T. Debevec, W. Deninger, F. Gray, D.W. Hertzog, C.J.G. Onderwater, C. Polly, S. Sedykh, M. Sossong, D. Urner
- **University of Minnesota –** P. Cushman, L. Duong, S. Giron, M. Iwasaki, M. Kawamura, J. Kindem, I. Kronkvist, R.McNabb, C. Timmermans
- **Yale University –** M. Deile, H. Deng, S.K. Dhawan, F.J.M. Farley, M. Grosse-Perdekamp, V.W. Hughes*, D. Kawall, J. Pretz, S.I. Redin, E.P. Sichtermann, A. Steinmetz

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This experiment provides a sensitive test of the standard model of particle physics and new informa-tion on speculative theories beyond it. Compard to the electron, the muon *g* value is more sensitive to standard model extensions, typically by a factor of $(m_\mu/m_e)^2$.

*deceased

EXPERIMENT 963
Home Page http://lansce.lanl.gov/research/radiography/mcclelland.htm

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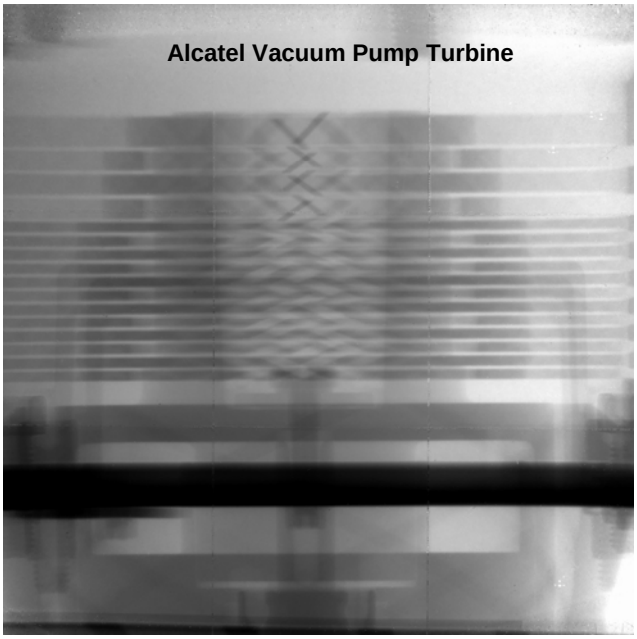
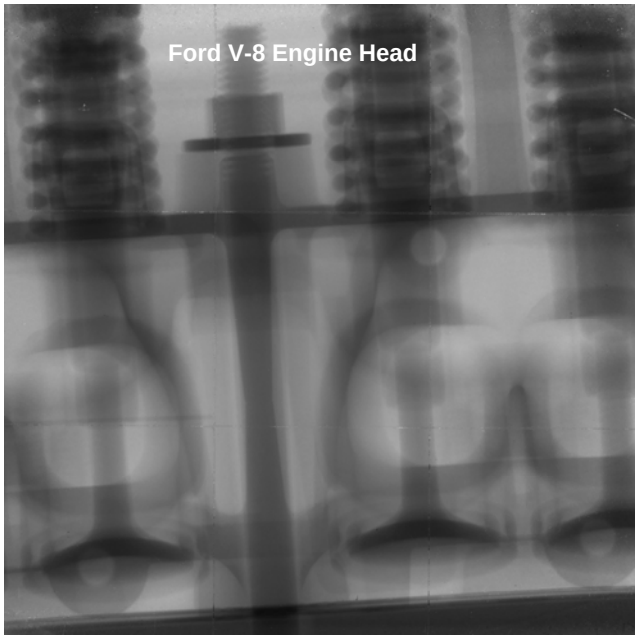
E-963 Radiographs at 24 GeV





Beam: U
Status: Completed FY 2003
Hours /Charged: 173

EXPERIMENT 963 –PROTON RADIOGRAPHY AT THE AGS IN THE U-LINE

SPOKESPERSON: C. MORRIS

- **Bechtel Nevada –** S. Baker, R. P. Liljestrand, D.V. Morgan, R.T. Thompson, T. Tunnel, A. Whiteson
- **Brookhaven National Laboratory –**G. A. Greene, A. Hanson, J. Scaduto, N. Tsoupas
- **General Atomics –** J.A. McGill
- **LANL –** J.G. Boissevain, K.L. Buescher, D.J. Cagliostro, D.A. Clar, D.J. Clark, G. Cunningham, C.J. Espinoza, E.Ferm, J.J. Gomex, N.T. Grayu, G.E. Hogan, N.S.P. King, K.K. Kwiatkowski, R.PP. Liljestrand, J.D. Lopez, J.A. McGill, F.G. Mariam, A.R. Mathews, F.Merrill, K.B. Morley, C. Morris, C.T. Mottershead, M.M. Murray, P.D. Pazuchanics, J.E. Pearson, J.S. Sarracino, A. Saunders, S. Sterbenz, D. Tupa, K. Vixie, P. Walstrom, M.D. Wilke, J.D. Zumbro

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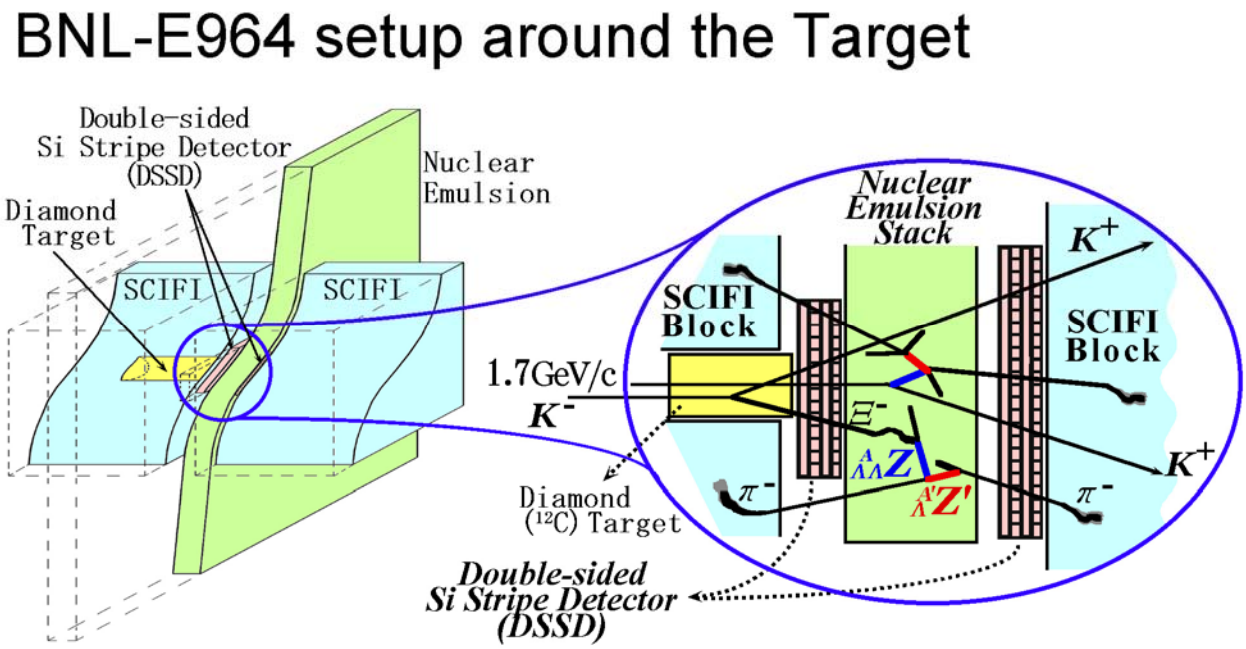
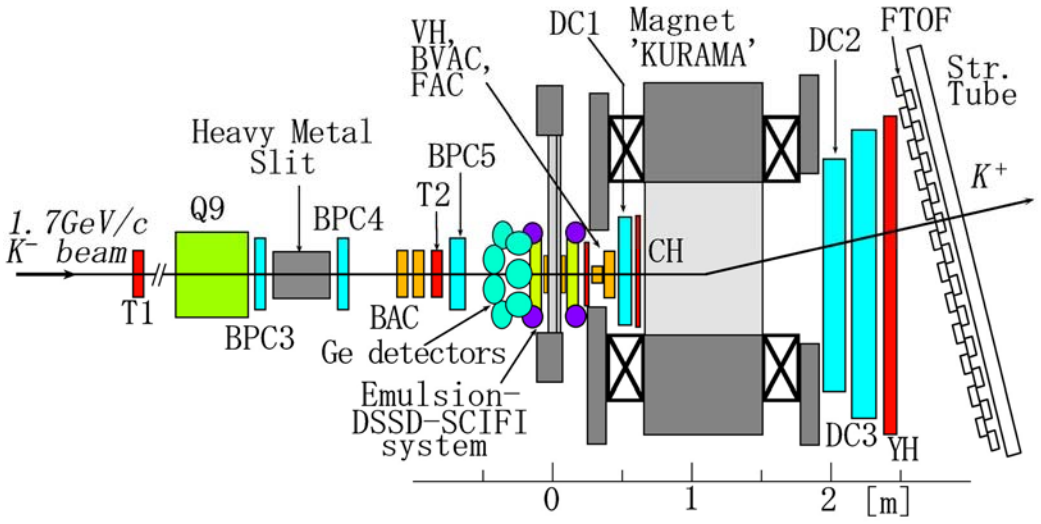
The primary reason for studying proton radiography at the AGS is to develop the techniques and validate the performance of high-energy proton radiogrpahy in support of advanced radiography. Advanced Radiography will collect multiple proton radiographs of hydrotests to provide data for stockpile stewardship. The goal of this experiment was to develop some of the techniques needed for analyzing data using classified test objects to determine how well the advance radiography can meet these requirements.

EXPERIMENT 964
Home Page





Beam: D6
Status: Approved
Hours Approved /Charged: 1400/0

EXPERIMENT 964 – SYSTEMATIC STUDY OF DOUBLE STRANGENESS SYSTEM BY AN EMULSION-COUNTER HYBRID METHOD

SPOKESPERSON: K. IMAI, K. NAKAZAWA, H. TAMURA

- **Gifu University –** K. Nakazawa
- **Kyoto University –** K. Imai
- **Tohoku University –** H. Tamura

This experiment is a systematic study of double strangeness (S=-2) systems via nearly 100 nuclear samples and few hundred Ξ atomic X-ray events.

EXPERIMENT 966
Home Page http://www.bnl.gov/medical/NASA

Beam: A3
Status: Completed FY 2003
Hours Approved/Charged: 200/183

EXPERIMENT 966 – NASA RADIOBIOLOGY

SPOKESPERSON: M. VAZQUEZ

- **Brookhaven National Laboratory –** M. Vazquez
- **Lawrence Berkeley Laborabory –** A. Chatterjee, L. Heilbronn, W. Holley**,** J. Miller, R.P. Singh, P. Wilson, C. Zeitlin

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This is part of a continuing program of experiments in radiobiology, funded by the National Aeronautics and Space Agency (NASA) as part of their space-related research efforts in the life sciences. A series of radiobiological and physics experiments were performed using the AGS to accelerate iron ion beams. This is BNL/AGS Run 9.

Radiobiological experiments employed cells, tissues, and intact specimens, which required a complex coordination and planning of their respective logistic support. Biological studies used human, mouse, rat and hamster cell lines, human-hamster hybrid cell lines, tumor cell lines and intact specimens (rodents and fish). Physics experiments involved the exposure of solid-state detectors and spacecraft materials.

List of Publications for C-AD Experiments

Publications - AGS Experiments 1982 - 2003

This listing was originally prepared using the SLAC data base SPIRES; we now rely on the experimenters themselves to supply us with information. It is easy to miss publications in such a wide search and we apologize for any left out or misidentified. Please let us know about these as well as keeping us posted on your recent publications of C-AD experiments.

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F. Jundt, et al., *Time projection chambers for ultra-relativistic heavy-ion experiments with amid-rapidity spectrometer",* Nucl. Phys. A566 (1994) (Quark Matter '93).

B. Moskowitz, *Hadron distributions at higher rapdidity using the BRAHMS forward spectrometer*, Physics w/ the collider detectors at RHIC and the LHC, Proc. of Pre-Conf. Workshop (Quark Matter 95).

D. Beavis, *Mid-rapidity measurements with the BRAHMS spectrometer,* Physics w/ the collider detedtros at RHIC and the LHC, Proc. of the pre-Conf. Workshop (Wuark Matter 95).

R. Debbe, et al., *In-beam tests of a ring imaging Cerenkov detector with a multianode photomultiplier readout*, Nucl Inst. Meth. A362 (1995).

R. Debbe, et al., T*he ring imagining Cherenkov detector for the BRAHMS experiment*, Nucl. Instr. Meth. A371 (1996) 327-329.

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M. J. Murray, *Forward energy and multiplicity in Au-Au reactions at sqrt9snn)=130 GeV,* Proc. of ISMD Workshop, Budapest, Oct. (2000).

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S. J. Sanders (for BRAHMS collaboration), *Charged particle multiplicities at BRAHMS,* Proc. 17th Winter Workhsop on Nuclear Dynamics, Park City, March (2001)

J. J. Gaardhoje (for BRAHMS collaboration), *First result from the BRAHMS experiment at RHIC on AuAu collisions at sqrt(snn)-130 GeV,* Proc. of QCD and High Energy Hadronic Interactions, Moriond, Les Arcs, March (2001)

R. Debbe (for BRAHMS collaboration), *Charged particle multiplicities at BRAHMS,* Proc. of INPC2001, Berkeley, CA. July 30-Aug. 3 (2001)

F. Rami (for BRAHMS collaboration), *Charged particle density distributions in Au+Au collisions at RHIC energies,* Presented at ICPAQGP2001 4th Intl. Conf. On Physics and Astrophysics of Quark-Gluon Plasma, Jaipur, India, Nov. 26-30 (2001)

D. Roehrich (for BRAHMS collaboration), *Results from the BRAHMS collaboration,* Presented at the SQM01, Frankfurt, November (2001)

BRAHMS Collaboration, *Charged particle densities from Au+Au collisions at sqrt(s_NN)=130 GeV,* Phys. Rev. Lett. B. 523, pp 227 (2001)

BRAHMS Collaboration, *Rapidity dependence of antiproton to proton ratios in Au+Au collisions at sqrt(s_NN)=130 GeV,* Phys. Rev. Lett. 87, 112305 (2001)

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P. Christiansen (for BRAHMS collaboration), *Particle ratios from BRAHMS at sqrt(s_NN)=200 GeV,* Presented at 18th Winter Workshop on Nuclear Dynamics, Nassau, Bahamas, Jan. 20-27 (2002)

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C. E. Jorgensen (for BRAHMS collaboration), *High pt spectra at forward rapidities in sqrt(snn)=200 GeV Au+Au collisions,* Presented at the QM02, Nantes, France July (2002)

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H. Ito (for BRAHMS collaboration), *Pseudorapidity distribution of charaged particles from pp and Au+Au collisions at RHIC energies,* Presented at PANIC02, Osaka, Japan, Sept – Oct. (2002)

J. I. Jørdre (for BRAHMS collaboration), *Rapidity dependence of strange particle ratios and spectra at sqrt(s_NN)=200 GeV Au-Au collisions,* Presented at POANIC02, Osaka, Japan Sept. – Oct. (2002)

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J. H. Lee (for BRAHMS collaboration), *Rapidity dependent strangeness measurements in BRAHMS,* Presented at 7th Intl. Conf. On Strangeness in Quark Matter, Atlantic Beach, N. Carolina, Mar. 12-17 (2003)

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I. Arsene, et al., (for BRAHMS collaboration), *Transverse Momentum spectra in Au+Au and d+Au collisions at sqrt(s_NN)=200 GeV and the pseudorapidity dependence of high pt suppression,* Phys. Rev. Lett. 91, 072305 (2003)

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Y. K. Lee, et al., *Plastic scintilator centrality detedtor for BRAHMS,* Nucl. Instr. Meth. A In press (2003)

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R. Seto, *PHENIX,* invited talk at 2nd Intl. Conf. On Physics and Astrophysics of Quark-Gluon Plasma, Calcutta, India, January, 1993.

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K. Adcox, et al., *Measurement of the midrapidity transverse energy distribution from sqrt(s) = 130 GeV Au-Au collisions at RHIC,* Phys. Rev. Lett. 87, pp 052301 (2001)

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K. Adcox, et al., *Centrality dependence of pi+-, p and pbar production from sqrt(s) = 130 GeV Au+ Au collisions at RHIC,* Phys. Rev. Lett. 88, pp. 242301 (2002)

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K. Adcox, et al., *Event-by-event fluctuations in mean p_T and mean e_T in sqrt(s_NN) = 130 GeV Au + Au collisions,* Phys. Rev. C66, pp. 024901 (2002)

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S. S. Adler, et al., *Suppressed pi^0 production at large transverse momentum in central Au+Au collisions at sqrt (s_NN) = 200 GeV,* Phys. Rev. Lett. 91, pp. 072301 (2003)

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W. Busza, *Low Pt physics and compact detectors at RHIC and LHC,* in Particle Production I Highly Excited Matter, Plenum Press Pub., pp.149-157 (1993)

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B. Wosiek, et al., *Phobos experiment at RHIC collider,* presented at Intl. Europhys. Conf. On HEP, Jerusalem, Israel, Aug. 19-26, 1997, Springer Verlag, Berlin, 1999, Eds., D. Lellouch, G. Mikenberg, E. Rabinovici, pp. 619-627

A. Wuosmaa, et al., *The Phobos experiment at RHIC – physics and capabilities,* Particle Dist. In Hadronic and Nuclear Collision, World Scientific, Singapore, pp. 181, Eds. M. Adams, R. Betts, T. Imbo, W.Y. Keung, U. Sukhatme (1999)

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B. B. Black, et al., *Charged particle multiplicity near mid-rapidity in central Au+Au collisions at* $\sqrt{s}$*=56 and 130 GeV,* Physics Review Lett. 85 pp. 3100 (2000)

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M. Baker, et al., *The latest results from Phobos: Systematics of charged-particle production through sqrt(s)=200 Gev,* presented at Intl. Workshop on Physics of the Quark-Gluon Plasma, Sept. 4-7, 2001, Germany

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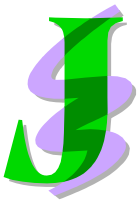

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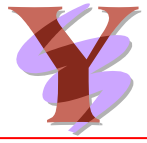

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