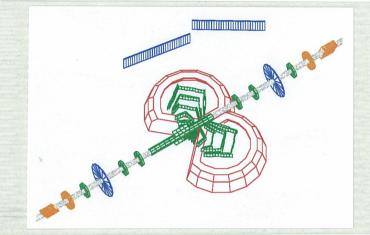
In the beginning, there was only empty space and a very good idea...









0.0

PROPOSAL TO STUDY VERY LOW Pt PHENOMENA AT RHIC

Nraft

PHOBOS COLLABORATION

A. Carroll, Y.Y. Chu, S. Gushue, H.W. Kraner, L.P. Remsberg

Brookhaven National Laboratory

L. Ewell, J.C. Hill, F.K. Wohn, plus 2 Ph.D. Students

Iowa State University

A. Budzanowski, H. Dabrowski, R. Holynski, H. Palarczyk, P. Malecki, A. Trzupek, H. Wilczynski, W. Wolter, B. Wosiek, K. Wozaniak, K. Zalewski

Institute of Nuclear Physics, Krakow

A. Bialas, W. Czyz

Jagiellonian University, Krakow

W. Busza*, C. Ogilvie, C. Parsons, M. Plesko, L. Rosenberg, J. Ryan, S.G. Steadman, G.S.F. Stephans, R. Verdier, B. Wadsworth, D. Woodruff, plus 7 Ph.D. Students

Massachusetts Institute of Technology

C. Halliwell, D. McLeod, plus 2 Ph.D. Students

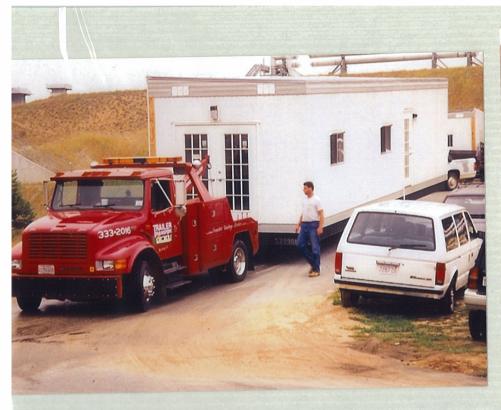
University of Illinois at Chicago

A. Mignerey, J. Shea, plus 4 Ph.D. Students

University of Maryland

S. Manly, plus 2 Ph.D. Students

Yale University









Soon, a counting house arrived, mostly empty but people managed to work.

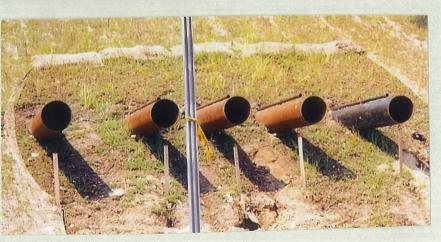


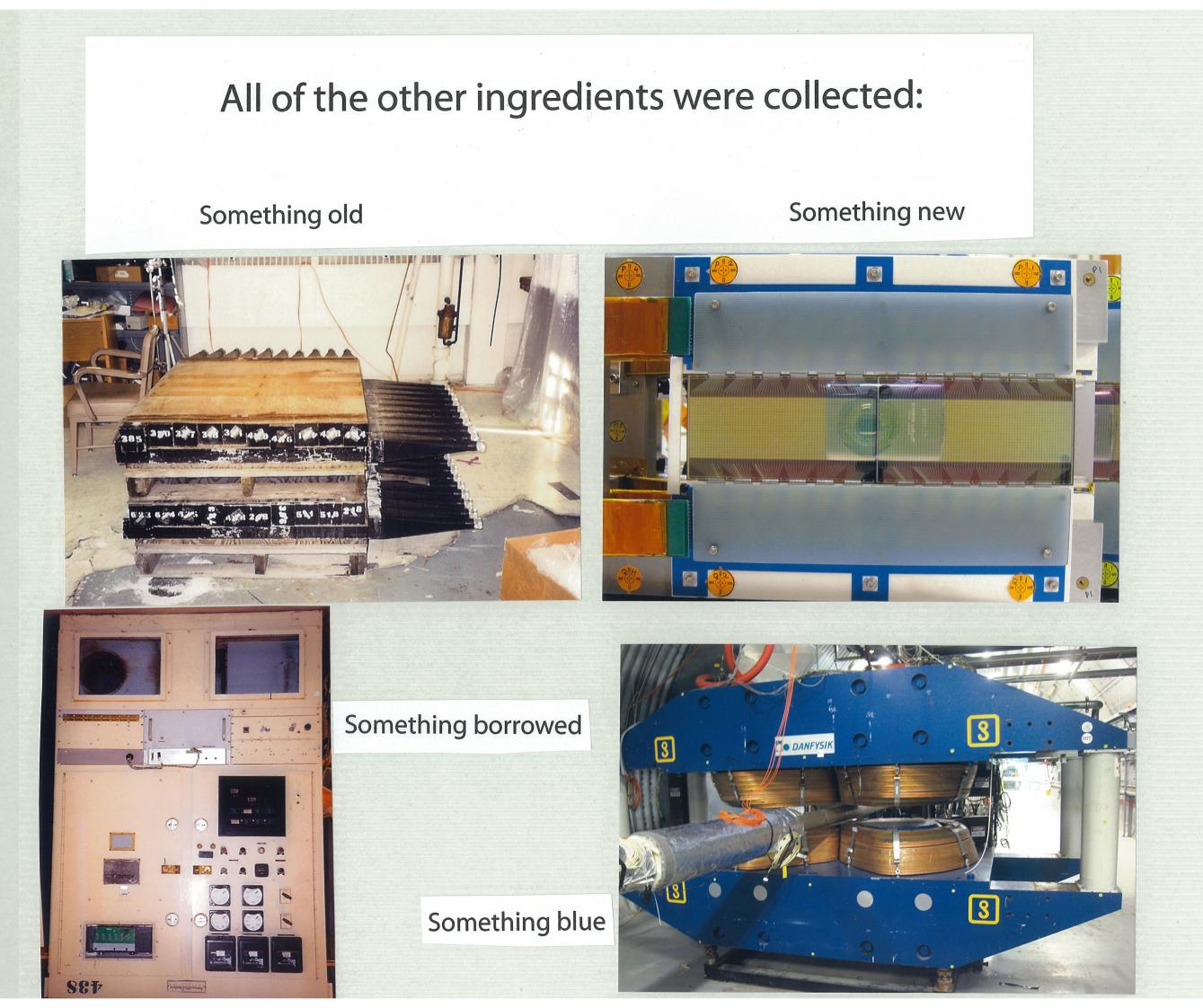
Step one was connecting the outside and inside.









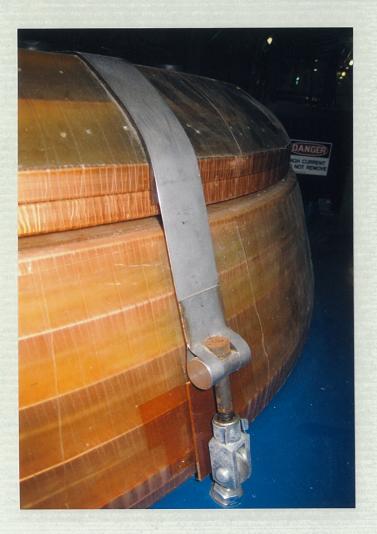


First there was a magnet which required a very unusual coil...















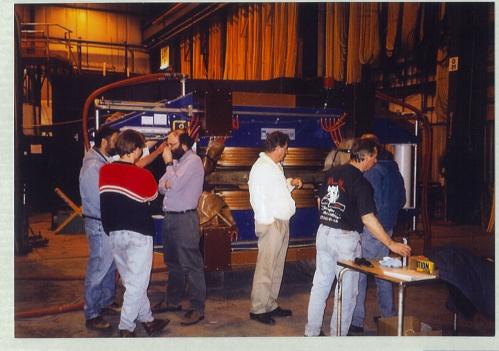


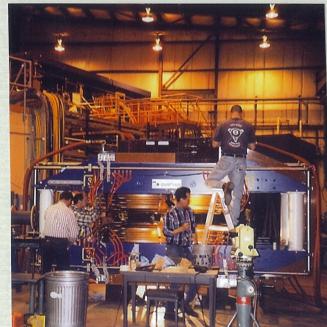
The magnet was built at the AGS, then moved to RHIC.



Everyone was very happy when the magnet turned on and even worked! 2T!!









Then, it came time to move into the tunnel using methods both high tech and not so

















OPEN



Some things just barely made it...



While others required special handling...

And don't forget the final precision alignment step!



The detector moves to the tunnel!











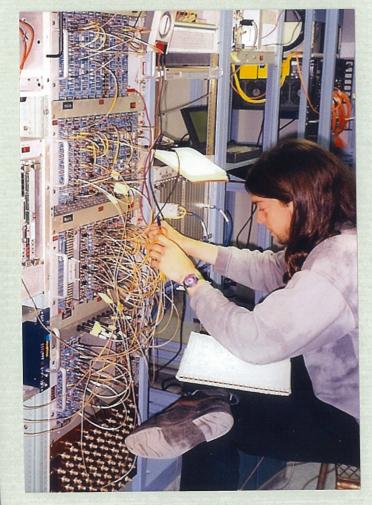


Everyone worked hard on assembly.









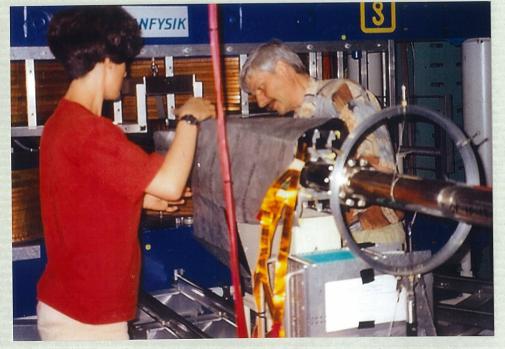


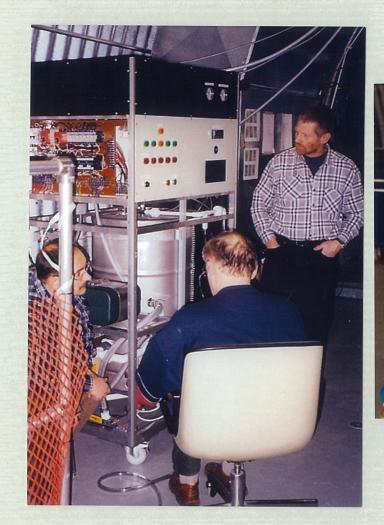














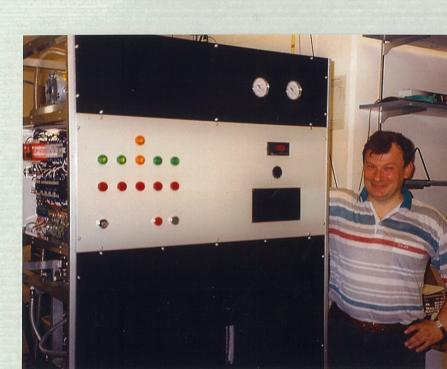


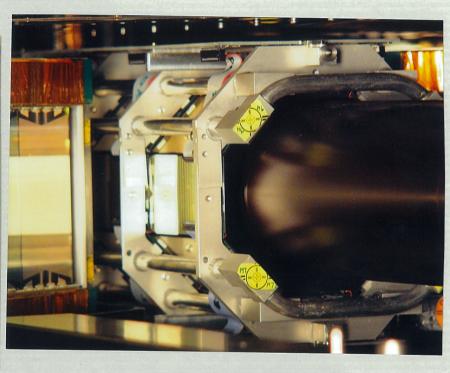
The counting house started to get filled up.

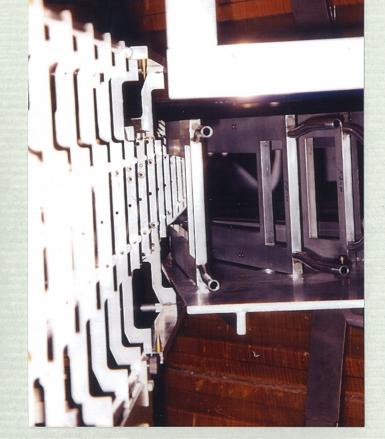


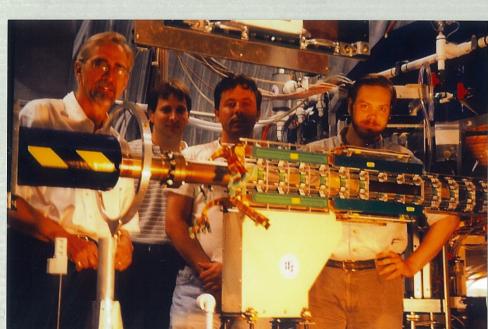


There was a lot to do and some of the clearances were very tight so we were all very proud at the end!





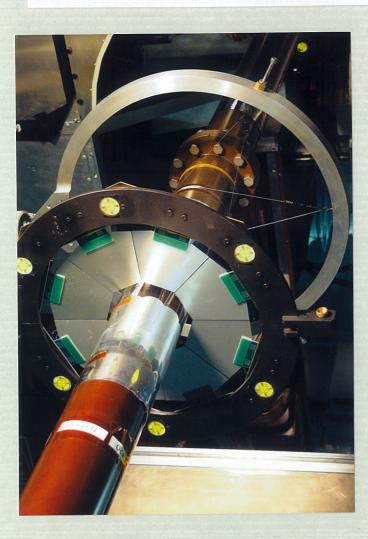




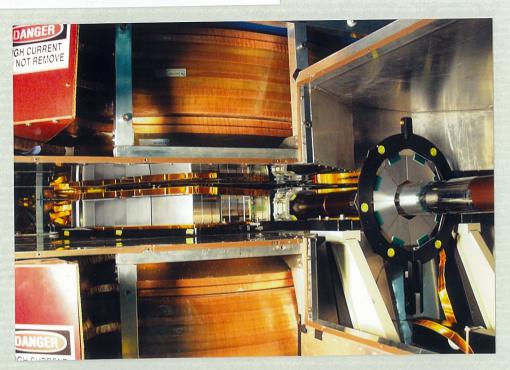




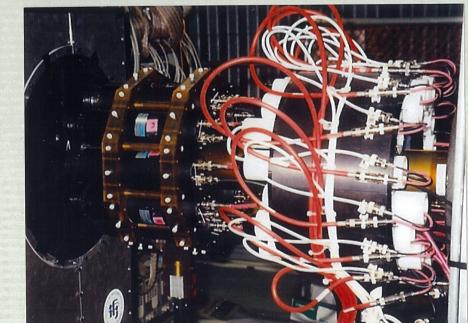
Lots and lots of detectors and associated hardware





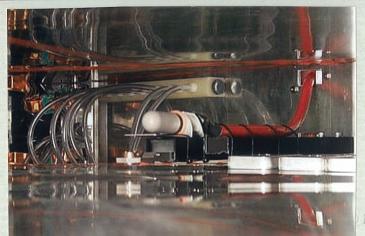




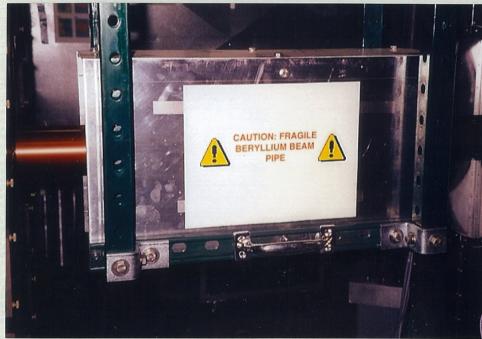


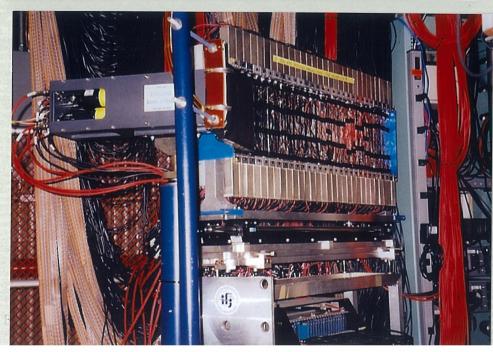




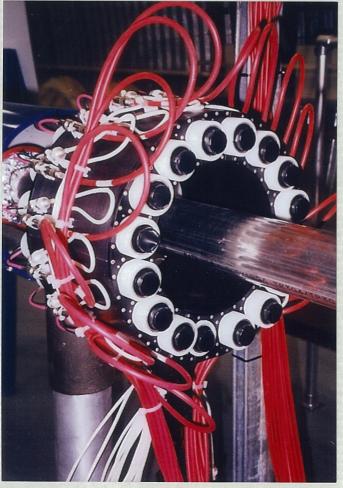




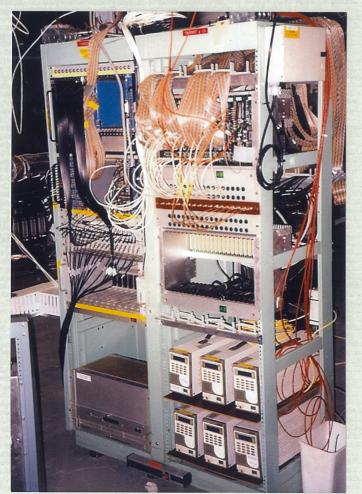








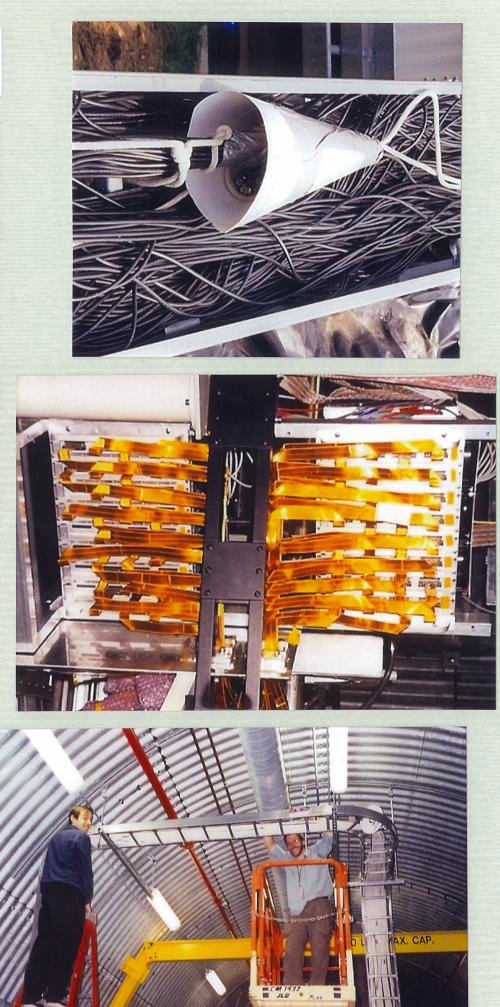


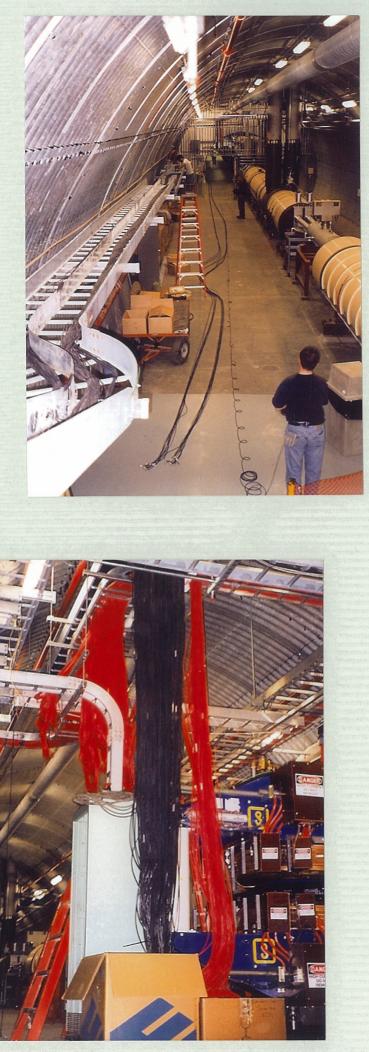


And there always seemed to be more and more cables...











Meanwhile, the RHIC accelerator and other systems were making progress.





AU.

0







Of course, everything wasn't always perfect







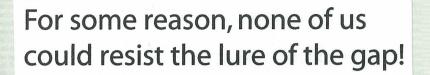
PHOBOS - 2

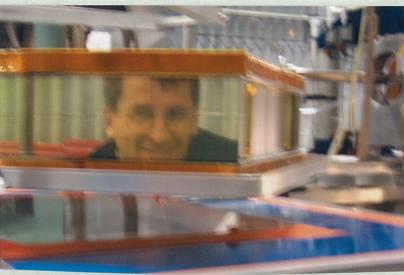


Phobos pioneered the fight against global warming





















Things were getting busy in the counting house while outside, nature occasionally paid a visit.



Phobos made extensive use of high tech tools



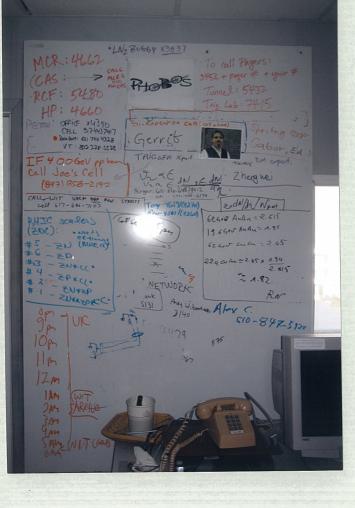


They might need a different version of the training program for this guy!



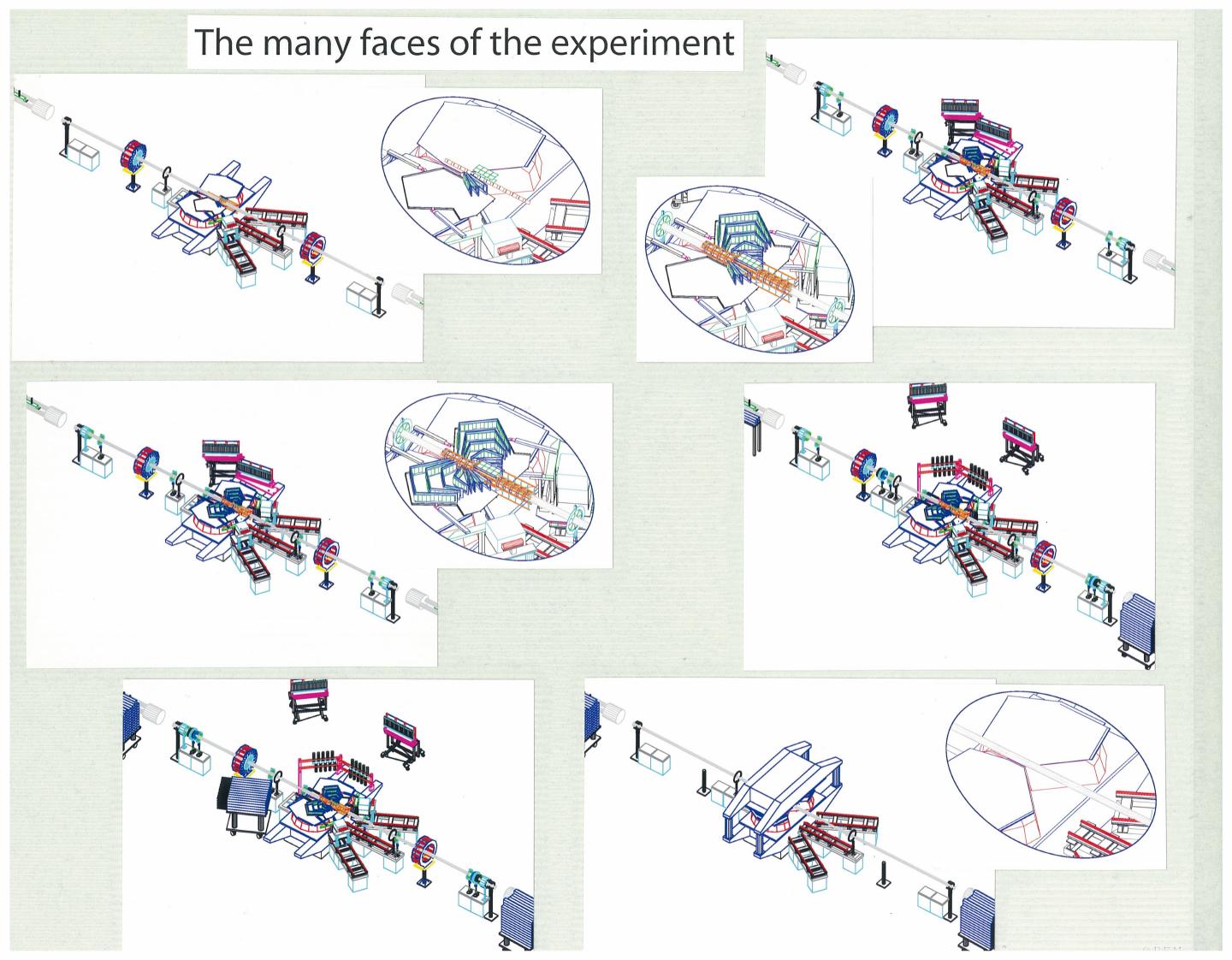


Someone who just realized that the access card doesn't work in the emergency exit.



A few of the many intricasies of the Si detectors





As time went on, we had lots and lots of meetings, some of them in wonderfully pleasant surroundings and some not.

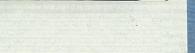






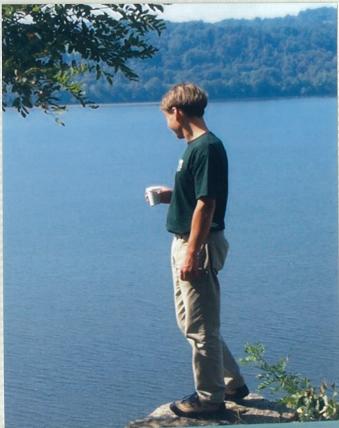




























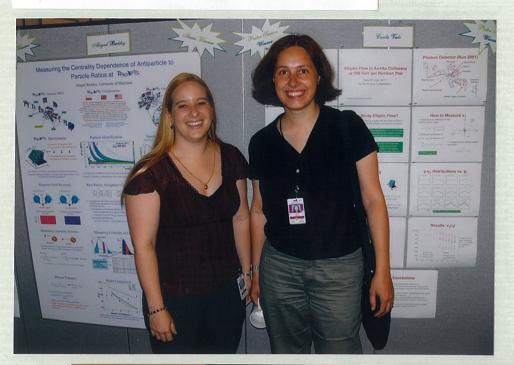
A few meetings were in the most pleasant surroundings







Award winning students!





A solid grasp of statistics is critical for physicists.















All good things must come to an end and, so, sadly, Phobos has been dismantled.



But Right Beft behind a great legacy

Several Widely

VOLUME 95 NUMBER 15

Available online at www.sciencecirect.com	
*CIENCE (0) 010 + CT.	NUCLEAR A
Nuclear Physics A 757 (2005) 28-101	
	*CIENCE (10106CT.

The PHOBOS perspective on discoveries at RHIC PHOBOS Collaboration

PHOBOS Collaboration
B.B. Back*, M.D. Baker*, M. Ballintijn *, D.S. Barton*, B. Becker*, R.R. Betts*, A.A. Bickley *, R. Bindel *, A. Budzanowski *, W. Busza*d*, A. Carroll*, Z. Chai*, M.P. Decowski*, E. García*, . T. Gburek*, N.K. George*, K. Gulbrandsen*, S. Gushue*, C. Hallwell, J. Hamblen*, A.S. Harrington*, M. Hauer*, G.A. Heintzelman*, C. Henderson*, D.J. Hofman*, R.S. Hollis*, R. Holyński*, B. Holzman*, A. Jordanova *, E. Johnson*, J.L. Kane*, J. Katzy*d*, N. Khan*, W. Kucewicz*, P. Kulinie*, C.M. Kuo*, J.W. Lee*, W.T. Lin*, S. Manly*, D. Molcaod*, A.C. Mignerey*, R. Nouicer*, A. Olszewski*, R. Pak*, I.C. Park*, H. Pernegger*, C. Reed*, L.P. Remsberg*, M. Neuter*, C. Roland*, G. Roland*, L. Rosenberg*, J. Sagerer*, P. Sain*a, P. Sawicki*, H. Seals*, I. Sedykh*, W. Skulski*, C.E. Smith*, M.A. Stankiewicz*, P. Steinberg*, S. Stephans *, A. Sukhanov*, J.-L. Tang*, M.B. Tonjes*, A. Trzupek*, C.M. Vale*, G.J. Veres*, E. Wonger*, F.L.H. Wolfs*, B. Wosiek*, K. Woźniak*, A.H. Wuosmaa*, B. Wysłouch*, J. Zhange*

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444 Citations (10/09/08)

PHYSICAL REVIEW LETTERS week ending VOLUME 91, NUMBER 7 Centrality Dependence of Charged-Hadron Transverse-Momentum Spectra in d + Au Collisions at $\frac{1}{5_{NN}}$ = 200 GeV B. B. Back, ¹ M. D. Baker,² M. Ballintijn,⁴ D. S. Barton,² B. Becker,² R. R. Betts,⁴ A. A. Bickly ludzanowski,³ W. Busza,⁴ A. Carroll,² M. P. Decowski,¹ E. García,⁴ T. Gburck,¹ N. George,¹ usbue,² C. Halliwell,⁶ J. Hamblen,⁴ A. S. Harrington,⁶ C. Henderson,⁴ D. J. Hofman,⁶ R. S. H Ultranz,² A. Henderson,⁶ T. Henderson,⁶ J. H. Horne,⁶ K. H. Henderson,⁶ J. J. Hofman,⁶ R. S. H.

S. Harrington,⁸ C. Henderson,⁴ D. J. Hofman,⁶ R ⁸ J. L. Kane,⁴ N. Khan,⁸ P. Kulinich,⁴ C. M. Kuo Nouicer,^{2,6} A. Olszewski,³ R. Pak,² I. C. Park,⁸ I ¹ J. Sagerer,⁶ P. Sarin,⁴ P. Sawicki,³ I. Sedykh,² W (PHOBOS Collaboration)









211 Citations (10/09/08)

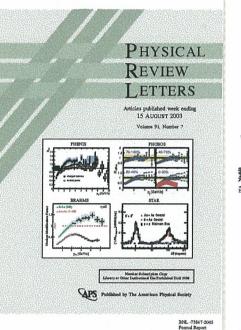
PHYSICAL REVIEW LETTERS ntation Region in Ultrarelativistic Heavy-Ion Collision r,2 D.S. Barton,2 R.R. Betts,6 M. Ballintiin,4 A.A. Bickley,7 R. Bindel,7 A. Bud elman," C. Henderson," D. J. Hofman, L. Kane,⁴ J. Katzy,^{4,6} N. Khan,⁸ W. K Michalowski³ A. C. Mianatau⁷ P. No

A. H. Wa



e same detector,

144 Citations (10/09/08)









NY 11974-5000 Office of Science





Charged hadron transverse momentum distribution collisions at $\overline{S_{NN}} = 200 \text{ GeV}$ ibutions in Au + Au

B.B. Back *, M.D. Baker *, D.S. Barton *, R.R. Betts ¹, M. Ballintijn ³, A.A. Bickley Y. R. Bindtel *, A. Budzanowski *, W. Buszaf *, A. Carroll *, M.P. Decowski *, E. Garefa * N. George **, K. Gultbrandsen *, S. Gushaw *, C. Halliwell *, J. Hamblen *, G.A. Heintzefman *, C. Henderson *, D.J. Hofman *, R.S. Hollis *, R. Holysski *, Hydroxik *, C. Heinter *, D.J. Hofman *, R.S. Hollis *, R. Holysski *, R. Holysski *, R. Holysski *, N. Staroli *, S. Staro ki", R. Pak", I.C. Park C. Mignerey*, K. Noulice*, A. Olszówski *, K. Pak, J.C. Fall, C. Reed⁴, J. Rembster⁸, M. Reuter⁴, C. Roland⁴, G. Roland J. Sagerer⁴, P. Sarin⁴, P. Sawicki^{*}, W. Skulski⁸, S.G. Steadma S.F. Stephans⁴, A. Sukhanov^{*}, J.-L. Tang^{*}, R. Teng^{*}, A. Trzuj van Nieuwenhuizen⁴, R. Verdier⁴, G.I. Veres⁴, B. Wadsworth

03/00-2693/5 - see front matter 40 200

123 Citations (10/09/08)

DOVERAL REVIEW C VOLUME 65 061901/R of the charged particle multiplicity near collisions at $\sqrt{s_{XX}}$ Å 130 and 200 GeV D. Baker.² D. S. Barton,² R. R. Betts,⁶ A. Bickley,⁷ R.



118 Citations (10/09/08)

VOLUME 88, NUMBER 2 PHYSICAL REVIEW LETTERS Energy Dependence of Particle Multiplicities in Central Au 1 Au Collisions

B. Back,¹ M. D. Baard, D. S. Barton,² R. Bietts,⁴ R. Biotta,⁴ A. Bakzarowski,¹ W. Busza,⁴ A. Carrill,² J. Orf M. P. Derowski,⁴ E. Garcia, N. George, ¹ K. Gulbrander, ⁴ S. Gabina,² C. Lallweil,¹ J. Hambin,⁴ C. Henkrey, N. Bias,⁴ D. Honsen,⁴ K. Biotlin,⁴ K. Holyikk,² B. Holzman,⁴ A. Iostanova,² E. Honsen,⁴ J. Kara,⁴ K. Michaevi,⁴ K. Biotlin,⁴ R. Holini,⁴ K. Holyikk,³ B. Holzman,⁴ A. Honsen,⁴ K. Beinsen,⁴ J. Kara,⁴ K. Michaevi,⁴ C. Raed, ⁴ L. P. Kulini,⁴ C. M. Kong, ⁴ W. Lin,⁵ S. Malda,¹ D. Michaevi,⁴ M. Richel,⁴ C. Raed, ⁴ L. P. Kara,⁴ K. Michaevi,⁴ K. Michaevi,⁴ K. Biother,⁴ A. Barton,⁴ K. Kara,⁴ K. Kara, ng,⁸ A. Trzupek,³ C. Vale,⁴ G. J. van Nieuwenhu Wolfs,⁸ Wosiek,³ K. Woźniak,²³ A. H. Wuos

121 Citations (10/09/08)

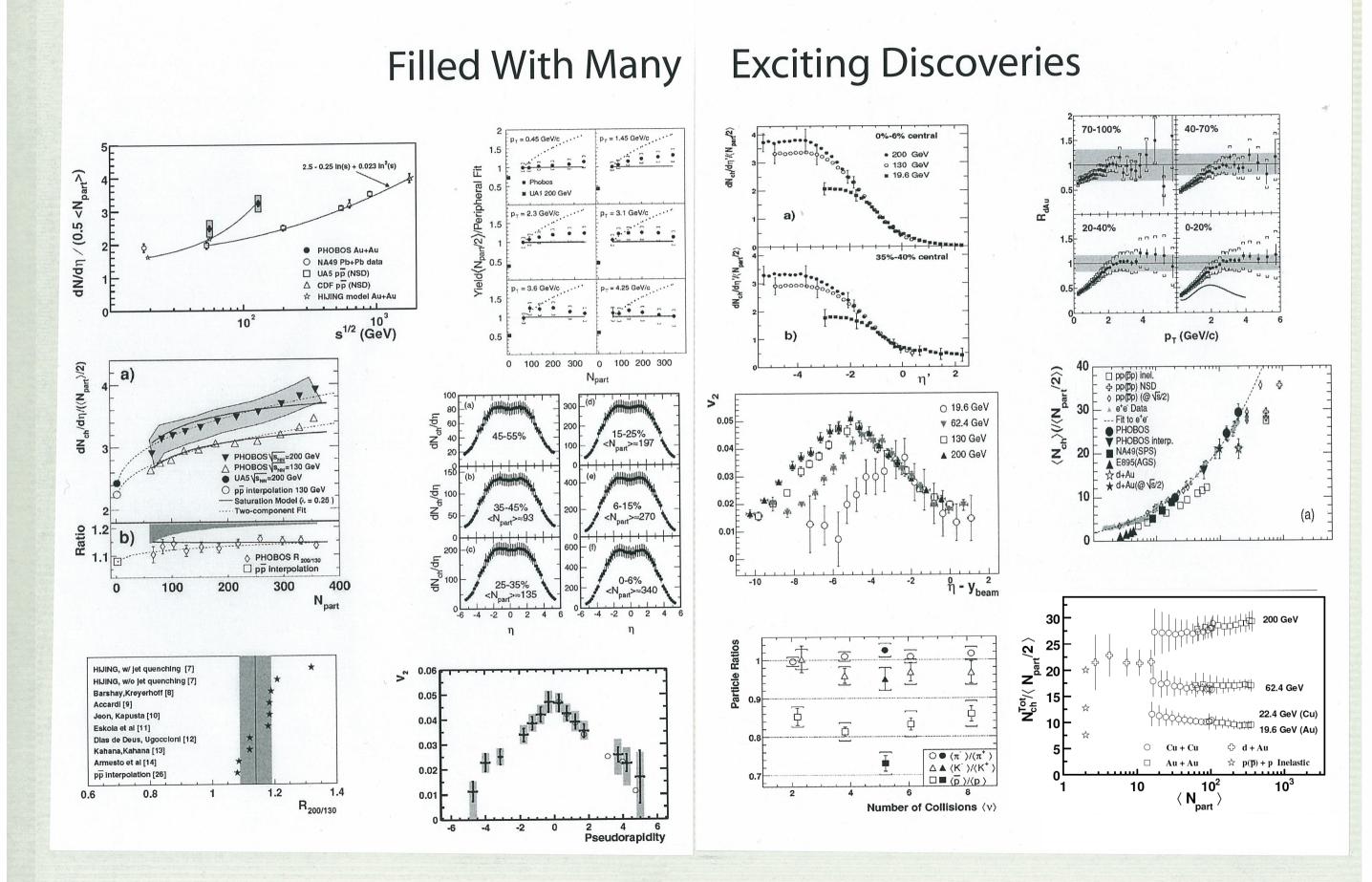
FAYSICAL REVIEW LETTERS 3 SEPTEMBER 2001 VOLUME 87, NUMBER 10

Charged- rticle Pseudorapidity Density Distributions from Au 1 Au Collisions at $P_{\overline{S_{NN}}} = 5$ 130 GeV

B. B. Back,¹ M. D. Baker,² Jarton,² R. R. Betts,³ R. Bindel,⁴ A. Bastza M. P. Decowski,³ E. Garcia, ¹ N. George, ¹ K. Gubbranden,³ S. Gubbar, 2 C. Hendreson,⁴ D. J. Hofma, ¹ R. Holyniski,³ B. Holzman,⁴ Z. Johnson, ¹ J Jacouricz, ² R. Kultini,⁶ W. ¹, ¹m, ³ Xultini,⁶ W. ¹m,⁴ S. Muhar,² C. J. Michalowski unicer,² A. Okazowski,³ R. Hu-¹, J. C. Patt, ² H. Perrogger,⁴ C. Reel,⁴ L. P. Realmad, ¹ L. Ranzeron,⁴ P. Wan,⁴ S. Buck,⁴ L. P. Real,⁴ L. P. Reale,⁴ L. P. Realmad, ¹ L. Ranzeron,⁴ P. L. Patt,⁴ H. Perrogger,⁴ C. Reel,⁴ L. P. Realmad,⁴ L. P. Realmad,⁴ R. Buck,⁴ S. Buck,⁴ L. P. Realmad,⁴ L. Realmad,⁴ R. Buck,⁴ R. P. P. S. C. Patt,⁴ H. Perrogger,⁴ C. Reel,⁴ L. P. Realmad,⁴ L. Realmad,⁴ R. Buck,⁴ R. P. Realmad,⁴ L. Realmad,⁴ L. Realmad,⁴ R. Buck,⁴ R. P. S. S. Buck,⁴ L. P. Realmad,⁴ L. Realmad,⁴ L. Realmad,⁴ L. Realmad,⁴ R. Buck,⁴ R. P. Realmad,⁴ R. Buck,⁴ R. P. Realmad,⁴ L. Realmad,⁴ R. Buck,⁴ R. P. Realmad,⁴ L. Realmad,⁴ R. Buck,⁴ R. P. Realmad,⁴ R. Buck,⁴ R. P. Realmad,⁴ R. Buck,⁴ R. Realmad,⁴ R. Buck,⁴ R. P. Realmad,⁴ R. Buck,⁴ R. Realmad,⁴ R.

dh at midrapidity (jhj ,

116 Citations (10/09/08)



OPEN



Throughout it all, Wit was always there to point the way







Charged Particle Multiplicity Near Mid-Rapidity in Central Au+Au Collisions at √s=56 and 130 AGeV

Wit Busza for the PHOBOS collaboration 19 July 2000 Brookhaven National Laboratory

Auci The University of Maryland's **Donaldson Brown** Center Borbone Bernie She N. Jolek Wer I: Rower Att Richard B. George Rachied Buent Wand a Knysstof Buent Wand a Don Guntler Jabor Autof. Dave & Richard Marguerie Dave & Richard Marguerie















RIOBOS

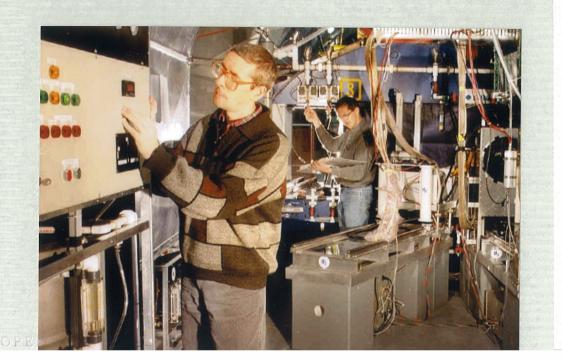
Acknowledgements

Dear Wit,

We would like to thank you very much for our very good and fruitful collaboration on construction of the PHOBOS experiment. It lasted more than 10 years and gave a lot of professional satisfaction as well as much pleasure and fun to Krakow hardware group. We were always impressed by your competence as the collaboration leader but may be even more by your attitude to each collaborator.

Wit, it was a great pleasure to work with you. Many thanks and good luck to you and the whole family.

> Marek Stodulski on behalf of the Krakow hardware group



The Henryk Niewodniczański **INSTITUTE OF NUCLEAR PHYSICS POLISH ACADEMY OF SCIENCES**

ul. Radzikowskiego 152, 31-342 Kraków, POLAND

October 23, 2008

Dear Wit,

After many years of fruitful collaboration the Krakow Group would like to thank you for your excellent work as a spokesman of PHOBOS experiment. We all have been impressed with the way you have led the collaboration and we have learnt plenty from you.

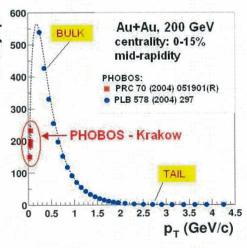
When we started working in PHOBOS, we even could not dream that this collaboration would be so productive, would give so many new and important results, would give us a lot of satisfaction and, last but not least, would be for all of us a great pleasure.

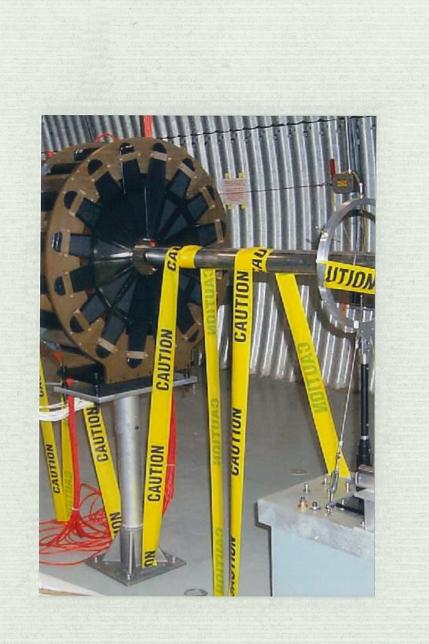
> Thank you Wit! We wish you and your family all the best!

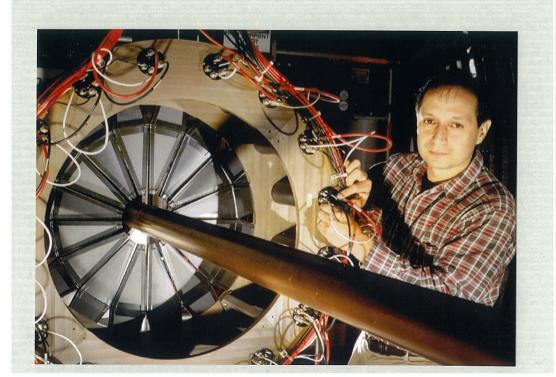
Krakow Group:

Borken Morch Jurelallickelonhi Adam Roman Groced Hudrej Andmy Tomasz Knysztot











Dear Wit, Thanks for making us Proud to be members of PHOBOS! Under your guidance we always met the challenge to produce the Most physics / dollar invested. (Bang for the Buck)

Thank you for your great leadership. Marguerite Bet Tonjes Marguerite Bet Tonjes

Dear Wít,

Thank you for being our intrepid leader. Your pep talks were always inspiring and carried us through the challenges. I will never forget that even after I left Phobos you showed up in the Phenix counting house just to check in on things despite the blizzard going on outside! Your dedication truly shows.

Best Wishes, Abby National Superconducting Cyclotron Laboratory Michigan State University East Lansing, MI 48824-1321 517-333-6480 (office)

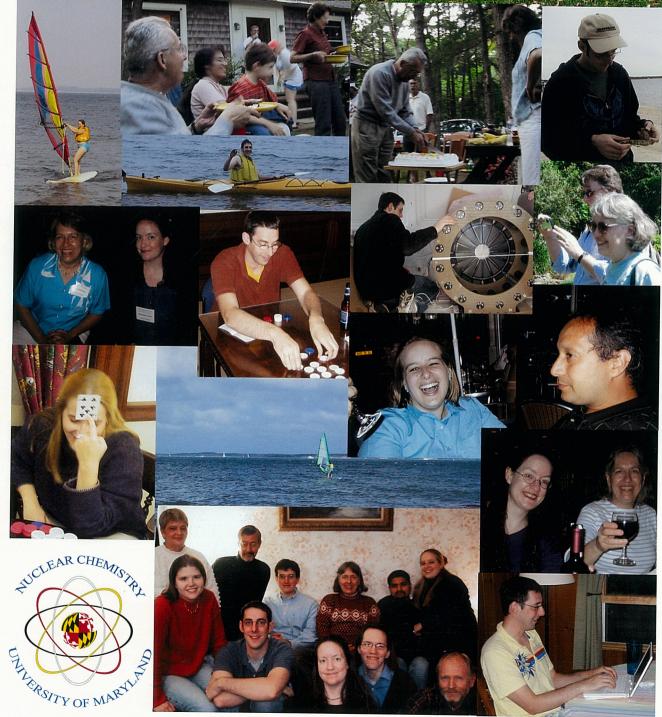
> I've always found your enthusiasm to be contagious! Thank you for a Fantastic decade at PHOBOS

Richard Bindel

The Maryland Group 1

10 October 2008

Wit, Thank you for your leadership of the PHOBOS Collaboration. Your thoughtful wisdom and judgement were our keel in both fair and stormy weather. The Maryland Group



Dear Wit,

As the PHOBOS collaboration assembles for it's final celebration meeting, I would like to express my thanks to you and to the entire collaboration. I won't be able to attend the meeting, as I am in the process of moving to CERN to start a new position as a CERN Fellow working on the LHC. But I will certainly be there in spirit, celebrating the accomplishments of a fine experiment!

I thoroughly enjoyed my PhD years on PHOBOS. It was a great experiment, staffed by great people. I loved that we as a collaboration did not let our small size intimidate us away from trying to make a big impact. And the fact that PHOBOS did make such a significant contribution to the field is a real testament to its people and its leaders.

I look forward to continuing to meet and interact with fellow PHOBOS alumni as we all continue our various research projects. I'm very proud to be part of such an illustrious group!

Best wishes to all,

Conor Henderson.



Dear Wit,

Over the many years that we've worked together, through the Single Arm Spectrometer at Fermilab, SLD at SLAC, and Phobos at RHIC, one thing has never changed: whenever you address a group of your colleagues, you begin with "Friends!"

Nowadays, that word usually means "I want something from you." A politician who says, "My friends and fellow Americans..." wants you to vote for him. An organization that says, "Dear friend of the Steam Train Museum..." wants money to repair the tracks. An *amicus curiae* wants to influence a court decision. But, cynic though I am, I believe you use that word to mean exactly what it says. We haven't always been in perfect alignment; but the occasional differences that have floated to the surface of our sea of agreement have always been discussed with civility and humor and settled with honor.

And so, my colleague, collaborator, and co-conspirator, I treasure our shared memories, and your achievements, crowned with the Phobos experiment, and salute you... my friend!

Robin Verdier October 7, 2008





Eötvös Loránd Tudományegyetem Természettudományi Kar Fizikai Intézet Atomfizikai Tanszék

Dear Wit,

I am very glad that I had a chance to be part of the PHOBOS challenge.

I enjoyed the athmosphere, and the support of my PHOBOS friends all the time, and I am proud of the achievements of the Collaboration. I especially remember two sentences from You: "If you have never done such a thing, this is the best time to try now!" when I arrived, and "you have a nice piece of work here!" 8 months later (see pictures below). All this gave me the sense of how important it was that You could hold all our efforts together with Your famous words of wisdom. Thank you for this experience - with all my best wishes:

Budapest, Oct. 9th, 2008.

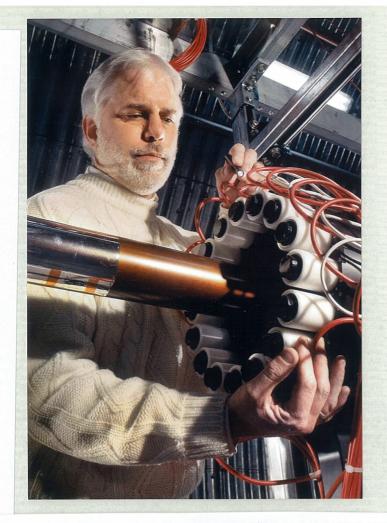
Gábor Veres

assistant prof., Eötvös Loránd University, Budapest former postdoctoral fellow, MIT LNS, PHOBOS





Cím: 1117 Budapest, Pázmány Péter sétány 1/A Tel.: (36-1) 372-2772; -209-0555/6345/6312 • Fax: (36-1) 372-2753 E-levélcím: atomph@ludens.elte.hu



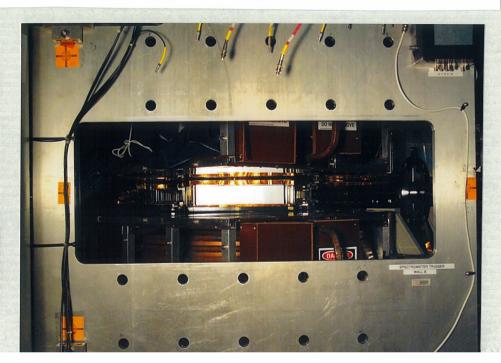


CONGRATULATIONS TO PHOBOS AND TO WIT! A MAGNIFICENT JOB!

From Don McLeod

I truly regret not being able to participate in PHOBOS past its construction and the very beginning of commissioning, because it was already the most effective and able collaboration I had worked in including long experience at Fermilab. It was a joy to work with you, even through some tense moments and major changes of plans. I'm also sorry I couldn't participate effectively in my last year (just a few distractions!) or even in a small way from Colorado (bandwidth!). I've followed your progress from afar with keen interest.

Best wishes for the future! It's going to be hard to top PHOBOS.



Dear Wit

I am truly sorry not to be able to make it to the Maryland meeting this weekend. My brother will be visiting for a few days from Australia.

I did want to share a few thoughts regarding PHOBOS and the collaboration that, without doubt, has been the most interesting, successful and enjoyable of my, by now quite long !!, career.

Under your skilful, steady and consistent leadership the PHOBOS collaboration worked fantastically well through all the challenges that faced us. The political climate of a "small" experiment, the funding profile, the ups and downs of designing and constructing the experiment, the difficult issues laid out on the table and hard decisions made, the struggles with RHIC etc etc. All this to produce a – pun intended – smashing success. Pound for pound, the best at RHIC and in many ways also the best in absolute terms.

It has been a pleasure to work with you and with all our collaborators – no not just collaborators - friends!!

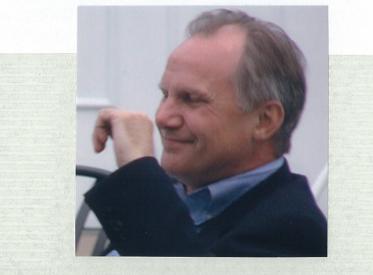
Enjoy the meeting - raise a glass for me

Cheers

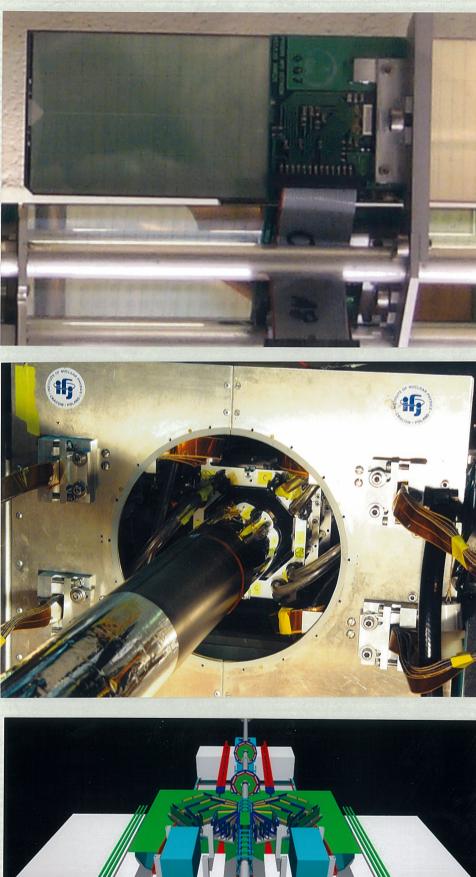
Russell

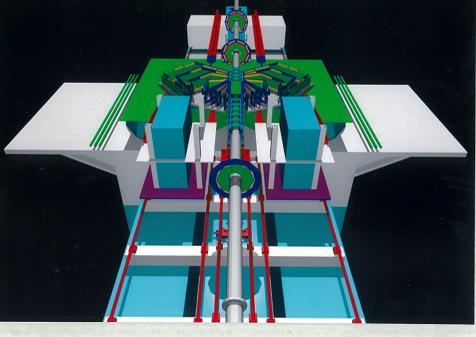
Russell Betts











Dear Wit,

Thank you very much for the invitation to attend the last Phobos collaboration meeting. Unfortunately, I am not able to attend, but I would like to share with you a few of my own thoughts as you celebrate the experiment.

I fondly look back at my own six years of (active) Phobos participation. I firmly belief that Phobos is one of the few collider experiments that allowed a graduate student to go through the entire experiment cycle: participate in the design, construction, data-taking and finally the analysis of the physics data (the only thing I - wisely? - missed was decommissioning). The size of the experiment was such that all collaborators could essentially know the entire experiment, not just the little part that they were focussing on. For a graduate student, this is incredibly valuable as you can get the feel of all the aspects of the experiment (try that with STAR or any of the LHC experiments). I learned a tremendous amount in that time. Even though my own physics interests have changed over time, I have taken the lessons I learned in Phobos with me and my contributions to the success of the KamLAND experiment are largely due to the training I received at Phobos.

The Phobos experiment is a success by any measure (e.g. 13 PRLs with 6 of them with more than 100 citations!) and as spokesperson you can justifiably be extremely proud of this. There was risk involved at almost every stage of the experiment - to most of us it was clear that this was much more so than for instance for STAR or Phenix - cancelling Phobos could buy that EMcal for STAR or help with the muon system for Phenix or perhaps just finish the accelerator. We were also exposed to risk with the detectors themselves, be it the ambitious initial electronics, the silicon or simply the fact that a single blast of the beam into our detector could kill the experiment. You guided us, with consultation, through many of these issues, making the right decisions when it was necessary. I would like to personally thank you for this leadership.

Finally, I would also like to point out the very high quality of the people involved. I think that you and Bolek have done a fantastic job of gathering a terrific group of people making it all possible. In the end it is not just about getting the money or the tools - without the right people it would just not work. The great achievements of Phobos are due to the fact that the right people were involved.

I hope that you and all the other current and former members of Phobos will have a splendid weekend in Maryland and I hope that it is not completely "over" and that the remaining Phobos analyses will get completed and written up - not an easy task as new ventures are clearly emerging on the horizon!

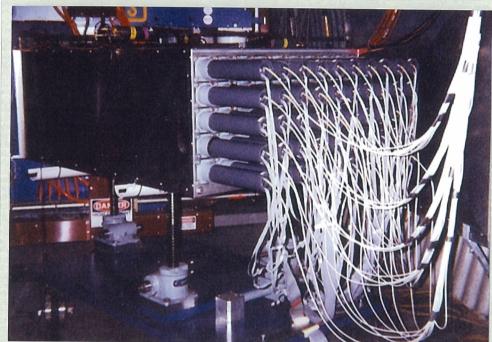
All the best, Patrick.

Patrick Decowski

I Physics Dept. ; UC Berkeley

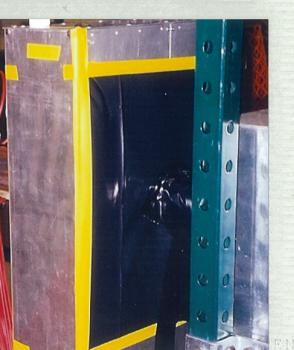








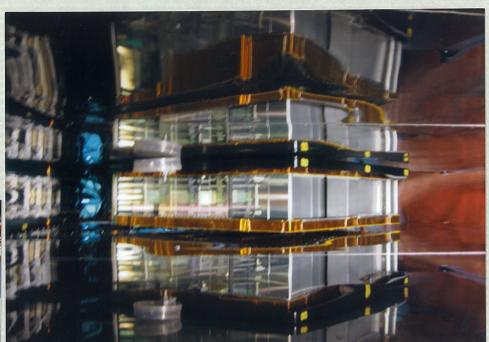




There were lots of ideas for the logo R The mug was also very popular PHOBOS рновоз Ph b s P PHOBOS PHØBOS abos. PHOBOS D PHOBOS

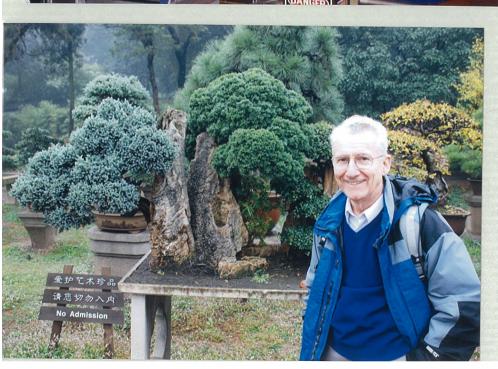












To Wit,

It was both an honor and a pleasure to work with you on the Photos experiment. Your leadership was largely responsible for the quality and breadth of the Photos physics program. Even more important from my personal perspective, your guiding example nurtured a spirit of unity, cooperation, and common goals which made Photos a "collaboration" in the very best sense of the word.



Many Thanks!

George Stophans 10/2008



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December 23, 2008

Dear Wit,

We just wanted to send a note of appreciation and thanks from the Brookhaven Group. PHOBOS was a unique opportunity for all of us, using what looked like a small experiment to do such big physics. And from its design to its implementation, it was a testament to your deep and lasting interest in fascinating physics topics many others had ignored, and your ability to assemble a such a great collaboration as PHOBOS, where the quality of the data was king, but where new ideas could be discussed (sometimes quite actively) and such surprising results could emerge. The main principle of the experiment -- that data was always richer than the various models we use to describe them -- has had a lasting effect on all of us and we will take it with us on future projects.

All the best to you and congratulations again on the success of PHOBOS. We were honored to part of it.

Warm regards, The BNL Group (past and present!)

Mark Baker, Don Barton, Alan Carroll, Zhengwei Chai, Nigel George, Steve Gushue, George Heintzelman, Burt Holzman, Rachid Nouicer, Robert Pak, Lou Remsberg Peter Steinberg, Andrei Sukhanov, Iouri Sedykh, The South African Student League (Bruce, Maciek, Helen, Mike, Shaun, Artur)

