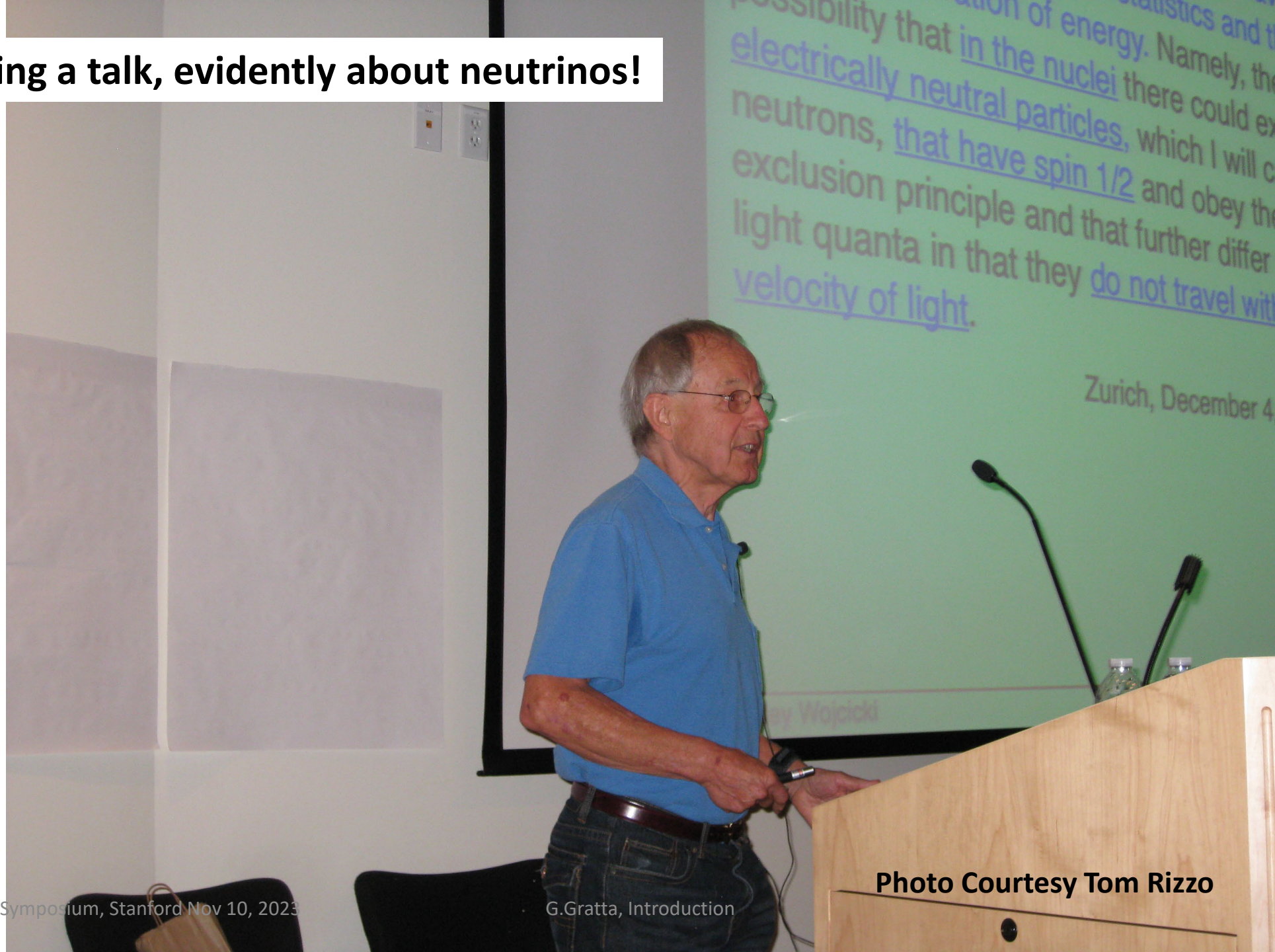


Introduction

Giorgio Gratta
Physics Department, Stanford University

The Stan Wojcicki Scientific Symposium
Stanford, Nov 10, 2023

Stan, giving a talk, evidently about neutrinos!



Stan Wojcicki Scientific Symposium

| | |
|------------------|---|
| 8:30AM | Breakfast |
| Session 1 | Chair: Jonathan Dorfan |
| 9:00AM | Welcome <i>Giorgio Gratta, Stanford Physics Department Chair</i> |
| 9:30AM | Neutrino Physics: Theory and Phenomenology <i>Andre deGouvea, Northwestern</i> |
| 10:10AM | Coffee/Tea Break |
| Session 2 | Chair: Persis Drell |
| 10:40AM | Stan and the Beginnings of the SSC <i>Maury Tigner, Cornell University</i> |
| 11:20AM | Long Baseline Neutrino Experiments: the Gold Standard, Minos <i>Jenny Thomas, University College London</i> |
| Noon | Group Photo |
| 12:10PM | Lunch |
| Session 3 | Chair: Natalie Roc |
| 1:30PM | A Few in a Trillion: A Search for Rare Kaon Decays by BNL E871 <i>Karol Lang, University of Texas at Austin</i> |
| 2:10PM | A Different Kind of Long Baseline: Reactor Neutrino Oscillation Experiments <i>Giorgio Gratta, Stanford University</i> |
| 2:50PM | Coffee/Tea Break |
| Session 4 | Chair: Robert Cahn |
| 3:20PM | 50 Years of Muon G-2: Where Are We Now and What Do We Know? <i>Dave Hertzog, University of Washington</i> |
| 4:00PM | Probing the Universe with Gravitational Waves <i>Barry Barish, California Institute of Technology</i> |
| 4:40PM | Reception |
| 6:00PM | Dinner (Invite-Only) |

The idea of this gathering is to talk some physics, maybe related to Stan, but mainly in the sense that Stan would have enjoyed to hear about it.

I then found some historical material and thought would be fun to share it. So, the scope of this introduction creped up.

Then (yesterday) Jonathan sent me some more material on the work of group G at SLAC: he will present this
–morphing from session chair to speaker

Two colleagues would have really liked to be here but could not:

Bill Foster

YiFang Wang

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Note that, before lunch, we'd like to take a photo.
So please do not disperse and try to follow the instructions!

Hired as assistant prof (1966)

“There seems to be no way that I can avoid writing you a letter of recommendation concerning Dr. Stanley Wojcicki, so here goes. As you know, Stanley is the number one choice of my research group and me...”

Apparently, the Berkeley Dept Chair was in India and Segre' was filling in and of the opinion that there were too many particle physicists, so he would not want to hire Stan.

“Burt Moyer has assured me that he will do everything in his power to get Stanley onto the faculty [at Berkeley] as soon as he returns from India.”

“...he has always been considered by those who knew him or his work, to be one of the most outstanding young members of the physics community”

“The place [LBL] is just brighter and cheerier because of his presence...”

“Now I wish I had learned to keep my big mouth shut, since we are going to be very unhappy if someone like you gets Stanley away from the Berkeley physics department.”

Luis Alvarez

LAWRENCE RADIATION LABORATORY
BERKELEY, CALIFORNIA 94720

April 5, 1966

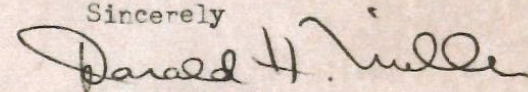
Professor L.I. Schiff
Department of Physics
Stanford University
Stanford, California

Dear Professor Schiff,

It is a pleasure to write to you in regard to Dr. Stanley Wojcicki. I have known him since 1959 when he joined our group to start his experimental work. Very soon it became clear that our problem would consist in trying to keep up with him in his thinking about the physics projects under investigation. His speed in comprehension, and his breadth and depth were far beyond his contemporaries. He has made a strong personal commitment to his work and although eager to discuss physics he does not enjoy idle conversation. He has a remarkably stable personality and is at ease in any group.

There is no question that Dr. Wojcicki has started on a career that will be unusually productive. Our regret is merely that the saturation of the Berkeley physics department in high energy physics has precluded our offering him an appointment here. We recommend him without reservation.

Sincerely


Donald H. Miller
Professor

May 27, 1966

Mr. Stanley George Wojcicki
Department of Physics

Dear Mr. Wojcicki:

At the meeting of the Board of Trustees of Stanford University held on May 19, 1966 you were appointed to the Stanford Faculty as Assistant Professor of Physics for a three-year period beginning September 1, 1966. Your salary for the year 1966-67 will be \$9,000.

We are pleased to have you join our faculty and look forward to your arrival.

Sincerely yours,

J. E. Wallace Sterling



III. GENERAL RECOMMENDATION

State why the action proposed in this recommendation is desirable for the department and school. If there are considerations which would make the candidate additionally valuable to the University as a whole, please state these also. Please indicate specifically the role the candidate is expected to fill in the department, his past and present role if this is a recommendation for reappointment or promotion, any special recognition of scholarly accomplishments, and service on committees or to the department. If the appointment is not to a full professorship, state whether in your opinion, at this stage in his career and assuming continued development, you would expect him to attain full professor rank. If one page is not enough, number successive pages 4a, 4b, etc., and insert between this page and page 5.

The Department has been searching for some time for a promising young experimental physicist to work primarily with the SLAC accelerator. This is particularly desirable in view of the arrival of Professor Melvin Schwartz next fall, who is one of the leaders in experimental high energy physics. He will be working at SLAC and is most anxious to have a younger person in the Department as a collaborator. The accompanying letters from Professors Alvarez, Miller, and Stevenson at Berkeley are the most glowing recommendations that we have seen for a person at this level. (Alvarez sent me a copy of his letter to UCLA in order to save time, and with the remark that UCLA had offered an associate professorship.)

Normally we do not expect a beginning Assistant Professor to obtain full Professor status. In this case however the promise of the candidate is so great that the expectation is greater than normal.

April 12, 1966

Dr. Stanley Wojcicki
Lawrence Radiation Laboratory
University of California
Berkeley, California

Dear Dr. Wojcicki:

Professor Schiff has asked me to write to you concerning campus housing. The University policy for Assistant Professors is that they become eligible only after they have served their first three-year term and are on permanent appointment. Unfortunately, there is no other housing available on campus for faculty.

I am enclosing a packet outlining the various benefit plans and services available to faculty.

Sincerely yours,

/ September 1, 1966

Arnice Streit
Humanities and Sciences

Betty Barnett
Physics Department

Professor Stanley Wojcicki

Dear Arnice:

Listed below are the expenses incurred by Professor Wojcicki on his move to Palo Alto.

| | |
|---|----------|
| Checker Van and Storage of Oakland | \$197.50 |
| Two cars from Berkeley to Palo Alto, 50 miles each @ .09 | 9.00 |

Also, Professor and Mrs. Wojcicki estimate that they made three weekend trips to Palo Alto prior to their move in order to find suitable housing. Please include if this is an allowable expense.

| | |
|--|--------|
| Three round trips, 100 miles each, @ .09 | 27.00. |
|--|--------|

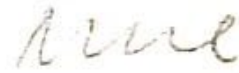
If you have any questions, please call me.

Regards,

Tenure, 1968

I think you are very wise to recommend Stanley for promotion to Associate Professor. If you don't do it very soon, someone else will tempt him away with an offer that you could not match.

Very sincerely,



Luis W. Alvarez

Promotion to full Prof (1972-3)

“I find him to be one of the most useful members of the NAL committee. He has the ability to put his finger on the crucial points of each experiment under consideration, while disregarding political aspects...”

Jim Cronin

Promotion to full Prof (1972-3)

Let me begin with a very general statement. Stan Wojcicki is in my opinion the very best experimental high energy physicist under the age of 40. Indeed, there are only a handful of people over the age of 40 who I would consider on a par. Telegdi at Chicago, Steinberger at CERN and Fitch at Princeton are the only people who come to mind as being comparable, and all of these are of a considerably older generation.

Firstly, Stan has a complete and thorough grasp of the theory and is able to understand an experiment and its implications better than anyone I know. Secondly, he is extremely critical in his judgements, both of his own work and of the work carried out by his colleagues. When he does something, it is almost always both meaningful and correct. Finally, with his superb taste in experiments goes an amazing facility for organization. Most high energy physics experiments rely for their success upon the ability to organize and motivate a large group of people. Whatever such skill has existed within our group has been largely due to Stan.

In summary, I would consider it a great travesty upon justice and fairness were he not promoted at this time.

Sincerely,



Melvin Schwartz

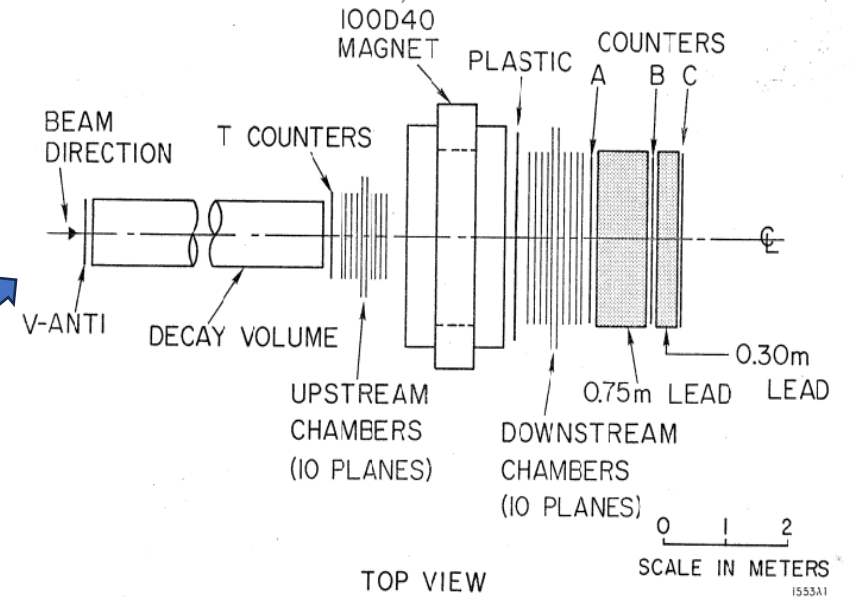
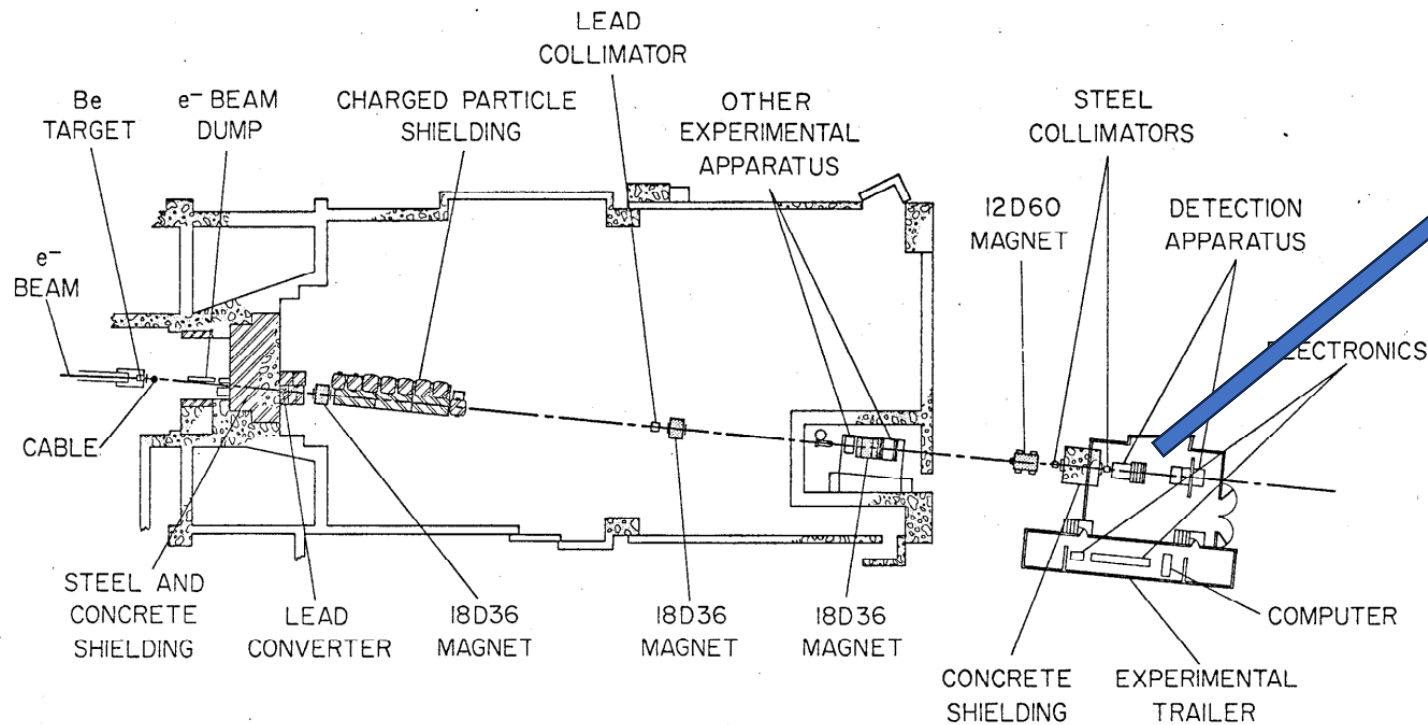
The Schwartz- Wojcicki SLAC Group --- Group G

By Jonathan Dorfan

One of the 8 initial SLAC letter groups, their SLAC experimental program derived its uniqueness from the glorious K_L spectrometer built by Stan and Mel which resulted in ~ 10 years of pioneering K_L decay experiments

Schwartz-Wojcicki K_L Spectrometer

Key attribute: Electromagnetic production of the K_L beam meant low contamination from neutrons



K_L Spectrometer: decay volume and detectors

K_L 's were produced in End Station B

END STATION B

CHARGE ASYMMETRY IN THE MUONIC DECAY OF THE $K_0(2)$ 1967

David E. Dorfan (SLAC), J. Enstrom (SLAC), D. Raymond (SLAC), Melvin Schwartz (SLAC), Stanley G. Wojcicki (SLAC) et al. (Sep, 1967)

MEASUREMENT OF THE MAGNITUDE OF η_{00} AND ITS PHASE RELATIVE TO η_{+-}

David E. Dorfan (SLAC), Melvin Schwartz (SLAC), Stanley G. Wojcicki (SLAC), J. Enstrom (SLAC), D. Raymond (SLAC) (Oct, 1967)

STUDY OF THE DECAY $K_0(L) \rightarrow \pi^{+-} \mu^{-+} \text{neutrino}$ 1970

David E. Dorfan (SLAC), D. Fryberger (SLAC), D. Hitlin (SLAC), J. Liu (SLAC), Melvin Schwartz (SLAC) et al. (Jan, 1970)

MEASUREMENT OF THE TWO PHOTON DECAY OF THE $K_0(L)$ MESON

SEARCH FOR RARE DECAYS OF THE $K_0(L)$

MEASUREMENT OF THE DECAY $K_0(L) \rightarrow \pi^0 \pi^0$ 1972

MEASUREMENT OF THE CHARGE ASYMMETRY IN THE DECAY $K_0(L) \rightarrow \pi^{+-} \mu^{-+} \text{neutrino}$

NEW MEASUREMENT OF THE $K_0(L) \rightarrow \pi^+ \pi^-$ BRANCHING RATIO

MEASUREMENT OF THE FORM-FACTORS IN THE DECAY $K_0(L) \rightarrow \pi \mu \text{neutrino}$ 1974

Production of Muon Pairs from $K_0(L)$ -Nucleon Interactions

Observation of the Decay $K_0(L) \rightarrow \pi^+ \pi^- \text{Gamma}$

Experimental Study of $K_0(L) \rightarrow \pi^+ \pi^- \text{gamma}$ and other Rare Decay Modes 1976

DELCO: Direct electron Counter for SPEAR 1975

So why the letter group name “G”?

Group G physicists were not collecting data solely, it seems, in particle physics but also in the discipline of genetics

Mel and Marilyn Schwartz arrived at Stanford with a son. Their next birth was a girl; Stan and Esther had three girls, David and Carol Dorfan a girl, John and Mary Liu had two girls, Jasper and Rita Kirkby 2 girls, so when Renee and I found we were pregnant, there was no need of a gender test – and indeed in March 1976 out popped a girl

In the years 1967-1976 there were 11 straight female births in Group GIRL.

Perhaps Anne can survey the  23andMe® databases to see if the hypothesis that working in a K_L beam produces exclusively female births is provable?