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PUB-655
c. 13

RADIOACTIVE NUCLEAR BEAMS

THE FIRST INTERNATIONAL CONFERENCE

16-18 October 1989, Berkeley, California, U.S.A.

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For Reference

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CONFERENCE OUTLINE &
FINAL REGISTRATION FORMS

Lawrence Berkeley Laboratory,
University of California, Berkeley

PUB-655
c. 13

Conference Chairman

J.M. Nitschke

LBL Organizing Committee

K. Matsuta
W.D. Myers
J.M. Nitschke
E.B. Norman
J. Randrup

International Advisory Committee

P. Armbruster, FRG
J. D'Auria, Canada
W.A. Fowler, USA
P.G. Hansen, Denmark
M. Huyse, Belgium
G.J. Mathews, USA
W. Mittig, France
C. Rolfs, FRG
I. Tanihata, Japan

THE FIRST INTERNATIONAL CONFERENCE ON RADIOACTIVE NUCLEAR BEAMS

16-18 OCTOBER 1989

to be held at

The Berkeley Conference Center
2105 Bancroft Way
Berkeley, California 94704 USA

CONFERENCE INFORMATION

This meeting will be of interest to scientists working in all areas of Radioactive Nuclear Beam research and development. It is the purpose of the conference to bring together researchers from different disciplines and to facilitate the presentation of ideas and information in this new field.

Invited and contributed papers will be presented covering production, properties, and applications of Radioactive Nuclear Beams. The proceedings will be published. Since this is the first conference of its kind it will also serve to define the field of Radioactive Nuclear Beam research. Initially this definition should be taken as being relatively broad. Because of the rapid evolution of the field, several contributions are expected to address future plans at different facilities.

All sessions will be held at

The Berkeley Conference Center
2105 Bancroft Way
(at the corner of Shattuck Avenue)
Berkeley, California 94704 USA

The Berkeley Conference Center is located in the center of Berkeley about 1/4 mile west of the campus of the University of California and 3/4 mile west of the Lawrence Berkeley Laboratory.

APRÈS CONFERENCE

The official conference activities will conclude on Wednesday, 18 October 1989. The conference organizers would, however, like to suggest that interested participants may want to consider staying an additional day in Berkeley. This day, Thursday, 19 October 1989, could be used for individual discussions and informal communications between participants. These could be arranged at the

Shattuck Hotel or at the Lawrence Berkeley Laboratory, where ample meeting space is available. Conferees may also want to visit the Radioactive Nuclear Beam facility at the Bevalac or visit other facilities at Lawrence Berkeley Laboratory, the University of California Campus, and Stanford University or in the larger San Francisco Bay Area. The conference organizers should be advised as early as possible of these intended activities to be able to provide optimal assistance.

CALL FOR PAPERS

Papers related to the production, scientific exploitation, and application of Radioactive Nuclear Beams are solicited. Papers will be selected for oral presentation on the basis of abstracts submitted, and a volume of abstracts will be available at the conference. A one-page abstract in camera-ready format (see below) and three copies should be sent as soon as possible and received in Berkeley no later than **30 June 1989**, at the following address:

Peggy Little
Conference Coordinator, 50B-2270
Lawrence Berkeley Laboratory
1 Cyclotron Road
Berkeley, CA 94720 USA

Authors whose papers have been selected for oral presentation will be notified in early September.

Papers are solicited for all aspects of Radioactive Nuclear Beam research, including

- Production methods, cross sections, intensities
- Acceleration, storage, cooling
- Measurement of intrinsic Radioactive Nuclear Beam properties, radii, moments, etc.
- Nuclear astrophysics
- Radioactivity studies
- Nuclear structure and reactions, exotic nuclei
- Electromagnetic excitation and dissociation
- Atomic physics
- Electron, laser, and ion-beam interactions
- Bio-medical applications
- Solid-state applications
- Technical developments and instrumentation, specialized ion sources, fragment separators, internal targets, detectors, spectrometers, etc.

SUBMISSION OF ABSTRACTS

Abstracts are required for all papers submitted to the conference. These abstracts will be printed, **in the form received**, in a book of abstracts to be made available at the conference. Please prepare your abstract as indicated on the following page.

INSTRUCTIONS FOR PREPARING ABSTRACTS FOR THE FIRST INTERNATIONAL CONFERENCE ON RADIOACTIVE NUCLEAR BEAMS

John Doe, Lawrence Berkeley Laboratory, University of California, Berkeley, CA 94720, USA

This set of instructions is given in the style and format to be used by authors in preparing abstracts. Follow the instructions and this example in typing the abstract. Reproduction of the abstract will be done photographically, thus reproducing your abstract exactly as received.

The abstract should be in English. The entire document, including the Author's address at the bottom, should be typed within an area 13 cm (5 in.) wide by 18 cm (7 in.) long. Use high-quality white paper. The type should preferably be 12 characters per inch and should be neat and clear. If possible use an electric typewriter with carbon ribbon or letter-quality printer; do not use a dot-matrix printer. For computer-generated printing it is recommended that Times Roman (12 point) font be used with single spacing. If guidelines are used, use only nonreproducible blue pencil.

The title of the abstract should be typed in capital letters, single spaced. The next line(s) should list the author(s), affiliation(s), and address(es) in initial capital and lower case, with the author who will present the paper underlined. Begin the text two lines below the last line of the address section, single spaced, with double spacing between paragraphs.

Submit the original (in camera-ready format) plus three copies to Peggy Little, Conference Coordinator, 50B-2270, Lawrence Berkeley Laboratory, 1 Cyclotron Road, Berkeley, CA 94720 USA. Note the deadline for abstract submission — to be received in Berkeley by 30 June 1989.

John Doe
Lawrence Berkeley Laboratory
Bldg. XX, Rm. 0000
University of California
Berkeley, CA 94720 USA
Telephone: (415) 486-9999
FAX: (415) 486-8888
E-mail: DOE@LBL

(As shown to the left, the name, address, telephone number, and electronic mail address of the principal author should be typed in the lower left hand corner of the page, two lines below the abstract copy area.)

PROCEEDINGS

The conference proceedings will be edited by W.D. Myers, J.M. Nitschke, and E.B. Norman and will be published by World Scientific Publishing Co. Each registered conference participant will receive a copy of the proceedings. In order to permit the rapid publication of the proceedings, each contributor is requested to turn in a camera-ready version of his/her paper at the time of the conference. Detailed instructions for preparing the manuscript are given below. Please also refer to the sample paper at the end of this chapter (page 7).

1. TEXT

The text must be in English. All original copies must be typed clearly and accurately in 1-1/2-line spacing on high-quality typing paper. The text must be typed within a frame of 15 cm wide × 23 cm high. The submitted

typescripts of each contribution must be in their final form and of good appearance because they will be printed directly without any editing. It is *essential* that the "camera-ready copies" must be absolutely clean and unfolded. Photocopies are unacceptable. Type only on one side of the typing paper. If you use a word processor, we recommend using the 12-point Times Roman font. Do NOT use white correcting fluid when correcting errors (a few lines or paragraphs) as it reproduces very poorly. The best way is to type the corrections on a separate sheet and paste them over the errors carefully. Self-correcting tape may be used for correcting a few letters only. Ensure that any type of adhesive tape to be used for sticking corrections does not cover the typewritten letterings.

2. TITLE

The title should be centered on the first page and be typed on a line 1 cm down from the top of the frame.

3. ABSTRACT

Start typing the word "ABSTRACT" 8 cm down from the top of the frame. Type the abstract in single-line spacing and indent 1.5 cm for the left and right margins.

4. MAJOR HEADINGS

Major headings should be typed in CAPITAL LETTERS.

4.1 Subheadings

Capitalize the 1st letter of each word for subheadings and use double spacing after major and subheadings.

4.1.1 Sub-subheadings For sub-subheadings capitalize the 1st letter of the 1st word only, with the rest of the words all lower case. Underline the sub-subheading and start text on the same line.

5. ILLUSTRATIONS, PHOTOGRAPHS, AND TABLES

Place them where they are first mentioned in the text. Note that the camera-ready copy will be reduced by 20%. Therefore, the letterings and notations and all figures must be large enough (approximately 2-1/2 mm) so that they are legible in the final reduced versions. Figures must be drawn with BLACK India Ink with the captions below them and sequentially numbered with Arabic numbers. Only black-and-white photographs are acceptable, and they must be sharp. Table captions should be typed above the tables. The size of all tables and figures *should not exceed the frame* (15 cm wide × 23 cm high).

6. FORMULAE

All equations must be typed or written neatly in black. They should be numbered consecutively throughout the text. Equation numbers should be enclosed in parentheses and placed at the right margin.

7. REFERENCES

References in the bibliography should be referred to in the text by a superscript number with a right-hand parenthesis. All references should be or-

ganized to provide last name and initials of the author(s), title of paper, volume (please underline), page numbers, and year of publication of paper in the journal/book — e.g.,

Donoghue, J. F. and Holstein, B.R., Phys. Rev. D25, 2015 (1982).

McCarthy, P.J., "On a Certain Family of Arithmetic Functions", Amer. Math. Monthly 65, 586-590 (1959).

8. PAGINATION

Number each page in nonreproducible blue pencil on the top right-hand corner (outside the frame). The final pagination of the proceedings will be numbered by the editor/publisher.

9. FOOTNOTES

Should be typed in single-line spacing at the bottom of the page where they are cited.

10. TOTAL LENGTH

Each paper should not exceed 10 pages in length.

THE TITLE GOES HERE

R. J. Squirrel
Whatsamata University
Frostbite Falls, MN 12345 U.S.A.

ABSTRACT

This is all explained in gory detail in the instructions that most of you probably will not read. Thus, we will say it again here in the proper format.

MOST IMPORTANT STUFF

The paper must be written in English. Use 1-1/2 line spacing in the main text. The entire paper must fit within the 15-cm wide × 23-cm high frame size. You may use any high-quality typing paper. We suggest using the Times Roman 12-point font.

Important Stuff

Illustrations, photographs, and tables should be placed on the page where they are first mentioned—not all together at the end of the paper. Equations should be typed or written neatly and should be numbered consecutively throughout the paper.

$$F = ma \tag{1}$$

More stuff This sample paper is designed to illustrate the way World Scientific would prefer you to indicate MAJOR HEADINGS, Subheadings, and sub-subheadings. References should be indicated by a superscript number with a right-hand parenthesis like this one¹⁾ and should be organized at the end of the paper in the following format:

1. Einstein, A., Sports Illustrated W396, 14 (1947).

CONFERENCE MATERIALS PICKUP

Conferees will receive a portfolio containing a program, set of abstracts, and an official conference receipt upon check-in at the registration desk at the Berkeley Conference Center, 2105 Bancroft Way (corner of Shattuck Avenue), in downtown Berkeley, beginning at 8:00 a.m. on Monday, 16 October 1989.

REGISTRATION AND FEES

Advance registration for this conference is strongly advised, because attendance is limited. Although the deadline for advance registration is 18 September 1989, please submit the enclosed registration form at the earliest convenience to the Laboratory Conference Coordinator to guarantee attendance.

The registration fee of \$150.00 (US) includes attendance at all sessions, one set of abstracts, proceedings upon publication; attendance at the social hour; and coffee breaks. This fee applies to all attendees.

Charge cards, international postal money orders, or Eurochecks cannot be accepted by the Laboratory as payment for the registration fee. (Charge cards may, however, be used to guarantee hotel accommodations.) *Registration fees* must be paid by checks in US dollars drawn on a US bank (make checks payable to "Regents, University of California"), by travelers check, or by cash. If participants from overseas have difficulty with these requirements, the registration fee may be paid on the first day of the meeting.

CANCELLATION AND REFUND POLICY

Should you cancel your registration in advance of the conference:

Full refunds will be made if requests are received by the Laboratory Conference Coordinator before 18 September 1989.

Partial refunds will be made after this date on a case-by-case basis, depending on the date of notification.

All refunds will be mailed within two weeks of the conclusion of the conference.

ACCOMMODATIONS

A number of rooms have been reserved at the Shattuck Hotel, two blocks from the Berkeley Conference Center. All participants desiring accommodations should make their own arrangements by mailing the enclosed hotel reservation form. The special rates quoted include complimentary overnight parking and a complimentary breakfast but do not include other meals, tax, or gratuities.

It is advisable when making reservations to include the first night's deposit or a credit card number; otherwise reserved rooms will not be held past 4:00 p.m. We advise that hotel reservations be made as early as possible to ensure availability.

The cut-off date for reserving rooms is 25 September 1989. After that date rooms will be released for sale to the general public on a first-come, first-served basis at the local corporate rate.

Shattuck Hotel
2086 Allston Way
Berkeley, CA 94704 USA
Telephone: (415) 845-7300
FAX: (415) 644-2088

\$49.00 single occupancy, plus 11% hotel tax

\$59.00 double occupancy, plus 11% hotel tax

The Shattuck Hotel is located in downtown Berkeley, one block south of the main entrance of the Berkeley BART (Bay Area Rapid Transit) subway station and within walking distance of the west side of the University of California campus. It is an older hotel with recently refurbished lobby and guest rooms. The restaurant within the hotel has received outstanding reviews from Bay Area food critics and from the national magazine, "Gourmet".

Area Hotels as Optional Housing

Other hotels in the area are listed for your information. If you decide to book into one of these facilities, remember to ask for any special LBL rates available.

These area hotels, at which no rooms have been reserved, include:

Berkeley Marina Marriott
200 Marina Boulevard
Berkeley 94710 (415/548-7920)

Days Inn Hotel
1603 Powell Street
Emeryville 94608 (415/547-7888)

Best Western Berkeley House Motor Hotel
920 University Avenue
Berkeley 94704 (415/849-1121)

Durant Hotel,
2600 Durant Avenue
Berkeley 94704 (415/845-8981)

Claremont Resort Hotel & Tennis Club
Ashby and Domingo Avenues
Oakland 94623 (415/843-3000)

Holiday Inn-Bay Bridge
1800 Powell Street
Emeryville 94608 (415/658-9300)

PARKING

Overnight guests of the Shattuck Hotel receive complimentary parking from 5:00 p.m. to 10:00 a.m. at the Shattuck Hotel Parking Garage, 2020 Kittridge Street (see map). If your car remains in this garage from 10:00 a.m. to 5:00 p.m. there is a charge of \$4.00 for the day.

Public parking is also available at the above garage; the rate currently is \$4.00 per day.

Parking also is available at the Great Western Parking Garage, 2061 Allston Way, which is open Monday through Friday from 6:00 a.m. to 10:00 p.m. The charge currently is \$4.25 per 8-hour stay, with a maximum of \$6.25 per 12-hour stay.

TRANSPORTATION

From the San Francisco International Airport

Transportation to the Shattuck Hotel currently is available at \$10.00 per person each way through the *Bay Area Shuttle* (prices may rise by October). The red vans with white lettering begin service from the San Francisco International Airport to the East Bay at 6:00 a.m., with the last departure at 10:30 p.m. (From 6:00 a.m. to 1:00 p.m. the shuttle runs every hour on the hour. From 1:00 to 10:30 p.m. the shuttle runs every 30 minutes.) Make advance reservations by calling (415) 873-7771. Bay Area Shuttle reservations may also be made by letter by indicating your name, address, date of arrival, airline and flight number, and your destination. Mail your reservation letter to

Bay Area Shuttle
440 San Mateo Avenue N-5
San Bruno, CA 94066 USA

Bay Area Shuttle departs the San Francisco International Airport from outside the baggage claim level, center traffic island, at each blue striped pillar marked as an authorized transit stop.

If you forget to make reservations, the shuttle will pick you up on a "space-available" basis.

Taxicab service: The current fare from the San Francisco International Airport to destinations in Berkeley is approximately \$40.00 for 1-5 persons and takes about one hour.

From the Oakland International Airport

Transportation to the Shattuck Hotel is currently available through charter service, taxi, or public transportation. Three charter services are listed for your consideration.

Bay Area Shuttle provides charter service for an individual rate of \$25.00 each way; for three or more persons, the rate is \$10.00 per person each way. Advance reservations are absolutely necessary to engage this service from the Oakland International Airport to destinations in Berkeley. Call (415) 873-7771, or write to the address noted above.

Bay Area Shuttle departs the Oakland International Airport from Terminal #1 at the shuttle bus stop located in the lower-level roadway at the stairs and from Terminal #2 at the center traffic island indicated as a courtesy van stop.

569 Limo offers charter service for a flat rate of \$33.00 per car. If one person books a car, the flat rate (\$33.00) is also the individual rate; if more than one person books, the flat rate may be split among the passengers.

We recommend advance reservations, particularly for groups. Call (415) 569-0660, or write to 569 Limo, P.O. Box 30334, Oakland, CA 94604. Include your name, date and time of arrival, carrier and flight number, and destination. The driver will meet you at the arrival gate. He will carry a large sign with your name posted on it. If calling from the airport upon arrival, plan on a 15-20 minute wait before pickup.

Bay Area Bus Service provides service with the following flat rates:

\$30.00	1-3 persons	\$55.00	7-8 persons
\$45.00	4-6 persons	\$65.00	9-11 persons

We recommend advance reservations. To make a reservation, call (415) 444-4200 or write to Bay Area Bus Service, P.O. Box 2464, Oakland, CA 94614. Include your name, date and time of arrival, carrier and flight number, and destination.

The boarding area for the Bay Area Bus Service is on the baggage claim level. If calling from the airport upon arrival, plan a 30-minute wait before pickup.

Taxicab Service: The fare from the Oakland International Airport to destinations in Berkeley is approximately \$25.00 for 1-5 persons. Allow 30 minute for travel time.

Public transportation is available via the Bay Area Rapid Transit System (BART) to Berkeley. Upon landing in Oakland, request the location of the nearest shuttle stop for service from the airline terminals to the BART station nearest the airport.

Maps are available for the asking. Take the Richmond train to the Downtown Berkeley station, which is on Shattuck Avenue one block north of the Shattuck Hotel.

Car Rental

Rental cars are available at both the Oakland and San Francisco airports from the following agencies: Avis, Budget, Dollar, Hertz, and National. Driving time to Berkeley is strongly dependent on traffic conditions and is approximately one hour from the San Francisco International Airport and one-half hour from the Oakland International Airport.

FOREIGN EXCHANGE

A Bank of America foreign exchange desk is located in the International Terminal of the San Francisco International Airport. Hours are daily from 7:00 a.m. to 11:00 p.m. Currently, there is no foreign exchange desk at the Oakland International Airport. The Bank of America, Berkeley Main Office, is located at 2129 Shattuck Avenue, three blocks north of the Berkeley Conference Center. It has a foreign-exchange window and charges 3%, or a minimum of \$3.00, per transaction.

Most other Berkeley banks do not exchange foreign currency. Banks in Berkeley are open 10:00 a.m. to 3:00 p.m., Monday through Thursday; 10:00 a.m. to 6:00 p.m. on Friday. Banks are closed on Saturday and Sunday. *We advise conference participants to purchase traveler's checks in US dollars or to exchange their money to US dollars before arriving in the United States.*

There will be no banking facilities at the conference itself.

WEATHER

In October, the Bay Area can experience one to three weeks of Indian Summer, when the temperature may reach 85–95°F (30–35°C) during the day, with nights only slightly cooler. In this event, comfortable warm-weather clothing is a necessity. However, this Indian Summer is variable in its arrival and departure pattern, and you should be prepared as well for cooler days and nights by bringing a sweater and a light coat. Comfortable walking shoes are also suggested.

SPECIAL NOTES

A message center will be maintained in the conference office at the Berkeley Conference Center. The number to call from 8:00 a.m. to 5:00 p.m. (Pacific Standard Time), Monday through Wednesday, 16–18 October 1989 is (415) 486-6155.

Emergency medical situations can be handled at nearby hospitals. However, these services will be charged to the individual. Because of the high cost of medical care in the United States, it is recommended that foreign visitors ensure that they are covered by medical insurance before arrival in the United States.

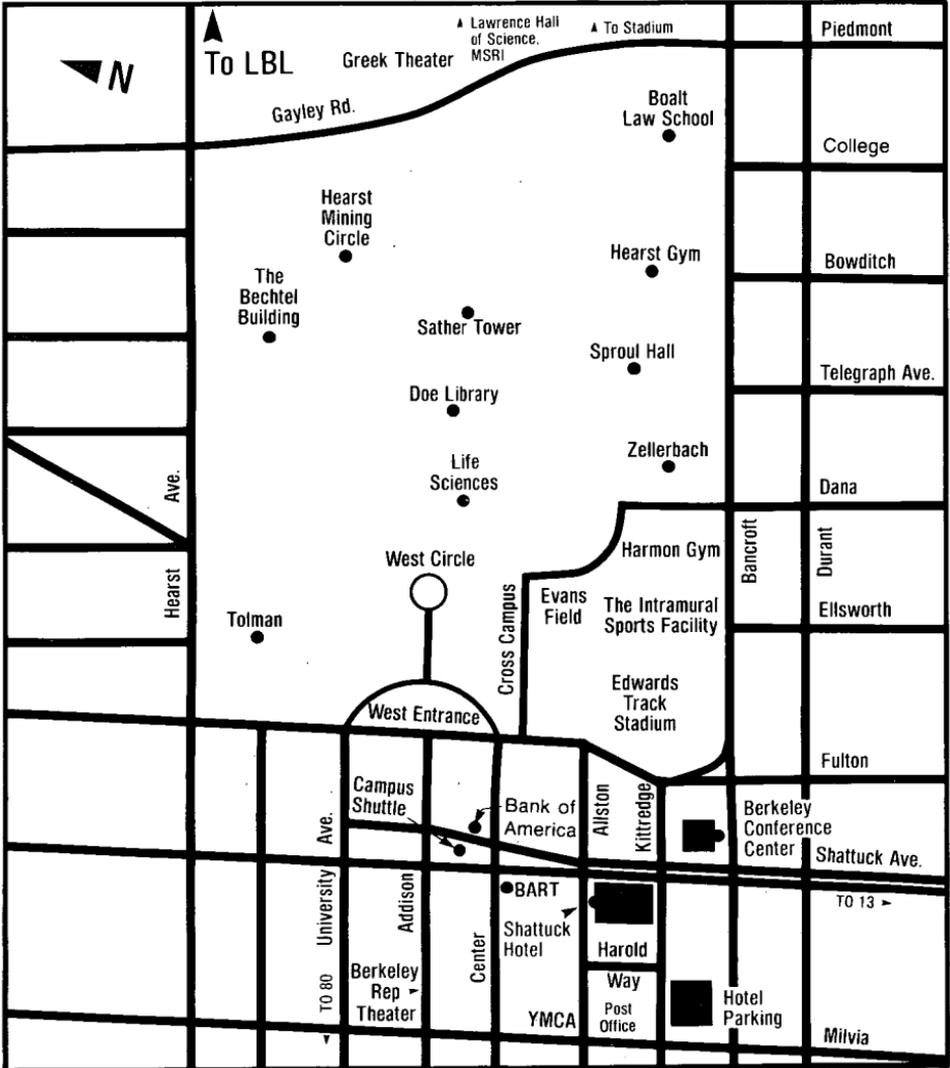
Charge cards, international postal money orders, or Eurochecks cannot be accepted by Lawrence Berkeley Laboratory as payment for the registration fee. (Charge cards may, however, be used to guarantee hotel accommodations.) Registration fees must be paid by checks in US dollars drawn on a US bank (make checks payable to "Regents, University of California"), by travelers check, or by cash. If participants from overseas have difficulty with these requirements, the registration fee may be paid on the first day of the meeting.

FURTHER INFORMATION

For further information, contact

Peggy Little
 LBL Conference Coordinator
 Lawrence Berkeley Laboratory, 50B/2270
 1 Cyclotron Road
 Berkeley, CA 94720 USA

(415) 486-6387, or FTS: 451-6387
 FAX: (415) 486-5401
 Telex: 910-366-2037



Map not to scale.

HOTEL RESERVATION FORM

Mail to

SHATTUCK HOTEL

2086 Allston Way
Berkeley, CA 94704 USA
415/845-7300
FAX: 415/644-2088

First International Conference on Radioactive Nuclear Beams

16-18 October 1989

ARRIVAL DATE: ____ / ____
Month Day

DEPARTURE DATE: ____ / ____
Month Day

PLEASE PRINT:

Name

Affiliation

Address (where confirmation should be mailed)

City

State

Zip Code

PLEASE RESERVE:	<input type="checkbox"/> ONE PERSON	ONE BED	\$49.00, plus 11% hotel tax
	<input type="checkbox"/> TWO PERSONS	ONE BED	\$59.00, plus 11% hotel tax
	<input type="checkbox"/> TWO PERSONS	TWO BEDS	\$59.00, plus 11% hotel tax

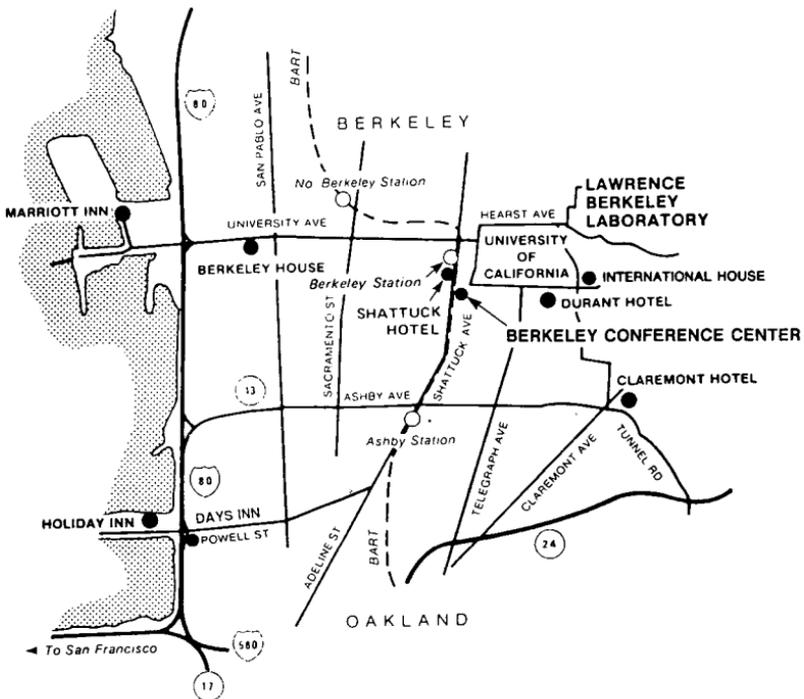
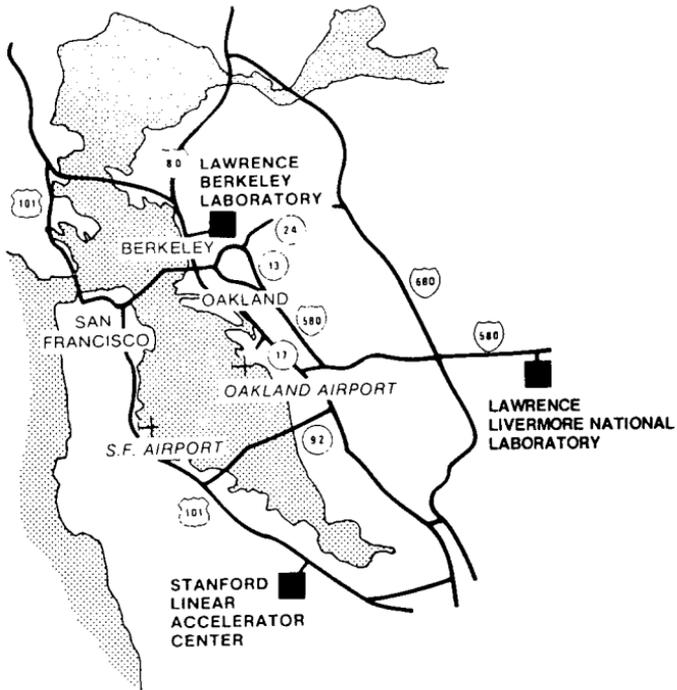
SHARING WITH _____

To guarantee the group rate of \$49/59 per night, reservations must be received by the hotel no later than **25 September 1989**. There may be availability problems if you wait until this date to make a reservation. Reservations made after this date may be charged at the local corporate rate.

Reservations are held until **4:00 p.m.** on the requested date of arrival, unless guaranteed by one night's deposit by check, money order, or major credit card. Check-out time is 12 noon. (Rooms may not be available for check-in until after 2:00 p.m.)

Credit card: _____ Number: _____ Expires: _____

Signature: _____



For Reference

Not to be taken from this room

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Contract No. DE-AC03-76F00098
PUB-655 3/89

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