

# BOOST 2020\*/2021 Proposal: Lawrence Berkeley National Laboratory\*\*



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Organization committee: Christian Bauer (Theory), Peter Jacobs (ALICE/STAR), Marjorie Shapiro (ATLAS), Ian Mout (Theory), Felix Ringer (Theory), Simone Pagan Griso (ATLAS) + other senior ATLAS/ALICE/Theory working with jets (Heather Gray, Haichen Wang, Barbara Jacak, Mateusz Ploskon, Xin-Nian Wang,...)

\*Since the LHC will be in a shutdown during 2020, it might make sense to have two US years in a row.

\*\*There has also been interest in “Northern California” sponsorship, i.e. co-hosting by UC Davis (Robin et al.), SLAC (Ariel, Stefan, Lance et al.), UCSC, with LBNL being the host site (central location). We are open to this, if the committee is interested / would allow it.

Listed below is an executive summary of our proposal. You can find more information about each of these topics in the following pages. Please note that these numbers are estimates based on recent workshops and conferences hosted at LBNL.

- Registration fee (anticipated): \$200
- Venue: LBNL (no better view in all of the San Francisco bay area), B50 auditorium.
- Meals: There are many excellent restaurants that are walking distance from Berkeley's campus (shuttle ride from LBNL), but ideally most of the lunches would happen at LBNL's excellent cafeteria (approximately \$10 for lunch and a great view).
- Hotels: There are many hotels close to campus with a variety of prices and we could also reserve rooms in the Berkeley guest house (\$140/room) that is less than 5 min. walking distance from the B50 auditorium, at LBNL.
- Possible local organizers: Christian Baur (Theory), Peter Jacobs (ALICE), Marjorie Shapiro (ATLAS), Zachary Marshall (ATLAS), Ian Moulton (Theory), Benjamin Nachman (ATLAS), and Simone Pagan Griso (ATLAS)
- Travel information: LBNL is easily accessible by public transportation from either the Oakland International airport (OAK) or the San Francisco International airport (SFO).
- Size of conference room: 230 people. Many break-out rooms can be available in building 50, near the auditorium.

\$200 total: \$75 to cover coffee, tea, muffins, scones, etc in the mornings and coffee, tea, cookies, pop in the afternoons. The conference dinner is included (as well as transportation to the dinner), but other meals are not included. The cafeteria at the lab offers a variety of menu options for ~\$10.00. The conference room and breakout rooms can be reserved at no cost to us. Furthermore, the high speed wireless is readily available at no cost to visitors.

The Berkeley Experimental Particle Physics Center (<http://bepp.berkeley.edu>) is one of three physics centers on campus at UC Berkeley. As co-hosts for the conference, the center could provide financial assistance to students who might not otherwise be able to attend. The center attracts a number of visitors during the year and could also host a reception on campus.

BOOST would be hosted at LBNL. There is no better view of the entire bay area (including San Francisco and the Golden Gate Bridge).



*The view from LBNL. It really is this nice most of the year. To the right of the figure one can see the foot of the Golden Gate Bridge and Alcatraz Island.*

There are a number of options on campus at UC Berkeley, but in order to keep registration costs to a minimum we are proposing to host the conference itself at the lab.

The main auditorium in Building 50 at LBNL is a short walk from the shuttle. It seats 230 and has AV equipment (microphones, projector, and so on) available.



*The building 50 auditorium, where the main sessions of the conference can be held. More information and other pictures can be found at [http://eic2008.lbl.gov/Other%20Docs/50\\_aud.htm](http://eic2008.lbl.gov/Other%20Docs/50_aud.htm)*

There are other auditoriums that could be reserved on campus for a modest fee (up to \$20/participant/week).

Other rooms in Building 50 and in nearby lab buildings of various sizes can be made available to the participants for breakout sessions or for any meetings that might be required during the conference.

Fast public wireless internet is available thoroughly LBNL, including in the B50 auditorium.

LBNL is easily accessible by public transportation from either the Oakland International airport (OAK) or the San Francisco International airport (SFO). The Bay Area Rapid Transit (BART) connects both airports to downtown Berkeley and there is a free LBNL shuttle that runs from that BART stop to LBNL. There are direct flights between SFO and Zurich (Swiss) as well as Frankfurt (Lufthansa) in addition to many flights with one stop in the middle. Furthermore, there are many direct flights between the US East Coast and the bay area.

There are a number of options for outings, and rather than restrict all the participants to a single destination we would prefer to arrange smaller groups that could enjoy different sights.

The San Francisco Exploratorium (<http://exploratorium.edu>) is a science and art museum along the waterfront. They have a variety of interesting exhibits, as well as a number of changing exhibits during the year. The entry fee is \$30, and discounts are available depending on the size of the group.

The California Academy of Sciences (<http://www.calacademy.org>) is a science and natural history museum with a large aquarium and planetarium. It also features a number of changing exhibits during the year. The entry fee is \$30 for groups, and a variety of tours are available.

Alcatraz Island ([https://en.wikipedia.org/wiki/Alcatraz\\_Island](https://en.wikipedia.org/wiki/Alcatraz_Island)) is a historical fort and prison in the middle of the bay. A visit to the island includes an audio tour of the prison and its history, as well as the settlements that once were there. The tour price is \$41 per person, including the boat ride to the island.

As the excursions all take the participants to downtown San Francisco, the conference dinner can be arranged nearby. There is a wide variety of options available, but two of the most popular for such dinners are the Hornblower cruises (<https://www.hornblower.com/port/overview/sf+dinnerdance>), which includes a cruise around the bay along with dinner and drinks, or Foreign Cinema (<http://www.foreigncinema.com/private-dining/>), a restaurant that is well-equipped to host large events like ours.



- LBNL has a strong ATLAS/ALICE/STAR/theory jet community.
- We also have a strong MC community (Christian B on Geneva at LBNL and Stefan H on Sherpa at SLAC).
- SLAC is close and of course they also have a strong ATLAS jet group (Ariel S, etc.) as well as theory (Lance/Stefan)
- UC Davis is close and they have a strong CMS jet group (Robin E, etc.)
- There is a large community on the west coast that would draw a large local crowd in addition to what we would get from elsewhere (Seattle, Oregon, Arizona, Los Alamos, Southern California, etc.)

(~50 people)

Thank you for your time  
and consideration!