Welcome
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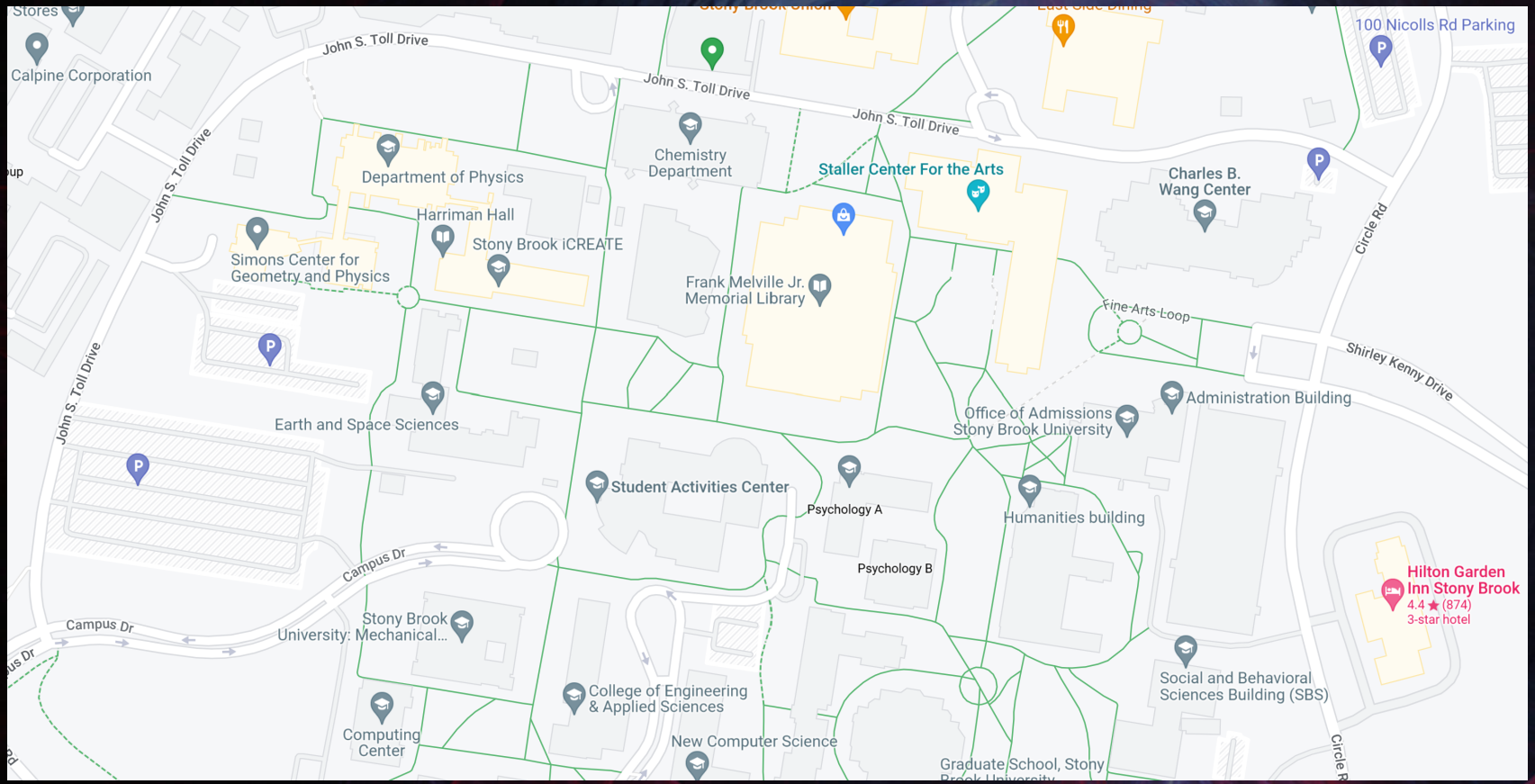
SRO ad-hoc workshop December 2022
RBRC
RIKEN BNL Research Center
Stony Brook University
Center for Frontiers in Nuclear Science

Welcome

Welcome. So we tricked you to come to SBU. What to do now?

- Lasciate ogni speranza, voi ch'entrate!



Parking

- Parking is free, but you need a visitor pass **on the dashboard**
- If you don't have one, I have some here.

Coffee

- Will have coffee / cookies at 10:30 and 15:30
- We should try to be on time.

Lunch

- Working lunch. Bill will get pizza from Station pizza
- Everyone OK with that?
- Who wants what?
- Vegetarian / Meat (Sausage, beef, pepperoni) / Buffalo Chicken / ???

History of our meetings

- We had 10 multi-day meetings since 2017, about 2/year
- Purpose
  - Promote SR as a new, better paradigm for DAQ design
    $\rightarrow$ especially for EIC
  - Build a community of experts
    $\rightarrow$ NOT limited to EIC
  - Connect with commerical providers
  - Investigate the solution space

SRO is more than chips: last meeting's topics

For details: `https://indico.jlab.org/event/519`

- SRO for EIC (status / rates / plans)
- Current / near future SRO realizations
- FEE electronics
- Timing infrastructure
- Data flow / data model
- Machine Learning in the readout pipeline

The future

SRO is the chosen paradigm for EPIC. Mission accomplished? Do we need to change?

- We now have to design the DAQ specific for EPIC.
  $\rightarrow$Shorter, focused meetings with stakeholders. Like this one.
- But we should keep the connection to the broader community
  - Learn from each other
  - Find synergies (development, but also demand vs. commerical providers)

$\rightarrow$ Keep the non-EIC-specific multi-day meetings, but only 1 per year or less.