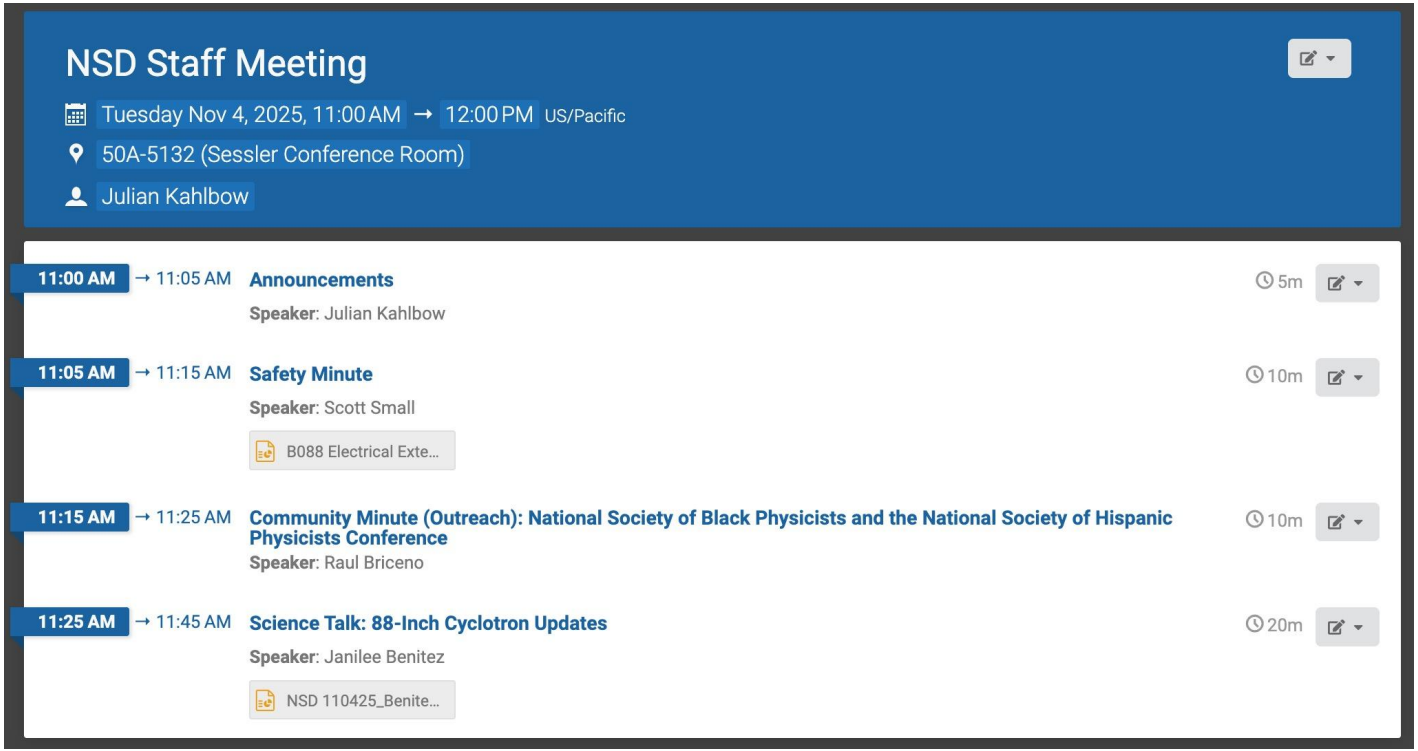

\+ **Coffee, Tea, Cookies at NSD Office Suite with Speakers**

NSD COLLOQUIUM

Prof. Laura Fabbietti

Technical University of Munich (TUM)

Towards a complete QCD maps of hadrons interactions

A new technique has been developed in recent years at the LHC to study the residual strong interaction among hadrons: femtoscopy for interactions. This technique leverages on the high statistics pp collisions data recorded at the LHC and on the exquisite particle identification capabilities of the ALICE detector. In this talk we will discuss how femtoscopy for interactions allowed to extract for the first time the scattering parameters of hadron pairs containing (nearly) any combination of u, d, s and c quarks. How the technique was extended to three-hadron systems with the goal of testing the sensitivity to nuclear three body forces and how the very same method recently allowed to directly observe the creation mechanism of anti-nuclei at the LHC.

Femtoscopy for interactions opened a new research field at the LHC and its future perspectives will be presented.

Thursday, November 13, 2025

Where?
50-Auditorium

When?
11am: Coffee, Tea and Cookies
11:30am: Colloquium

Zoom Link and More Details?
Visit
https://nsd-colloquium.lbl.gov/

BERKELEY LAB

Nuclear Physics Forum

Date:	Thu, Nov 06, 2 pm
Room:	88 - 238
Speaker:	Michel Kireeff Covo (LBNL)
Title:	Single-Bunch Extraction at the 88-Inch Cyclotron

Research Progress Meetings (RPM)

Date:	Thu, Nov 06, 4 pm
Room:	Sessler
Speaker:	Gianpaolo Carosi (LLNL)
Title:	Tuning into Dark Matter with the ADMX experiment

INPA Seminar

Date:	Fri, Nov 07, 12 pm
Room:	Sessler
Speaker:	Jennifer Pore (LBNL)
Title:	Heavy elements and nuclear science

NSD Colloquium

Date:	*Thursday*, Nov 13, 11:30 am
Room:	Bldg. 50 Auditorium
Speaker:	Prof. Laura Fabbietti (TU Munich)
Title:	Towards a complete QCD maps of hadrons interactions

HIT Seminar

Date:	Tue, Nov 18, 4 pm
Room:	Room 328, Birge Hall, UC Berkeley Campus
Speaker:	Jonathan D. Kroth (Iowa State U.)
Title:	Searching for missing direct photons in heavy-ion collisions with P and CP violation

Instrumentation Working Group Meeting: Last Thursday of the month