



BeEST Collaboration Meeting 2026

Strasbourg, France | October 15-16, 2026

Hosted by IPCMS - CNRS / Université de Strasbourg



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OCT 2026

Phase III and Understanding the BeEST Spectrum

OPEN	WELCOME AND COLLABORATION OVERVIEW
09:00-09:10	Welcome to Strasbourg - Paul-Antoine Hervieux
09:10-09:25	BeEST in 2026: Phase III, program transition, and the path to the next measurements - Kyle Leach
I	PHASE III: PRINCIPAL RESULT AND COMPLEMENTARY SEARCHES
09:25-09:45	Data cleaning and validation of the Phase-III dataset - David Raji
09:45-10:05	Optimal filtering for pulse reconstruction - Katie Ream
10:05-11:05	Phase-III unblinding and sterile-neutrino analysis - Inwook Kim (remote)
11:05-11:25	<i>Coffee break</i>
11:25-11:45	Nuclear recoil-gamma coincidence spectroscopy in ^7Be decay - Connor Bray
11:45-12:05	Excited-state decays and invisible-particle searches in Phase III - David Moore
12:05-12:25	Majoron searches in BeEST: scalar, vector, and derivative couplings - Driss Guillet
12:25-12:45	Discussion: Phase-III analysis and publications
12:45-14:05	<i>Lunch</i>
II	SPECTRAL MODELING AND ATOMIC / RECOIL THEORY
14:05-14:25	The integrated Phase-III spectral model - Leendert Hayen
14:25-14:45	RLDA-KLI modeling of beta-decay and calorimetric EC spectra - Adrien Andoche
14:45-15:05	Shake-up and shake-off processes in electron-capture decay - Mauro Guerra / Jorge Machado
15:05-15:25	Precision Recoil Predictions in β Decay for Sterile-Neutrino Searches - Xavier Mougeot
15:25-15:45	<i>Coffee break</i>
III	DETECTOR, MATERIAL, AND SUPERCONDUCTING PHYSICS
15:45-16:10	Solid-state effects in BeEST: open questions and LLNL approaches to address them - Stephan Friedrich
16:10-16:30	Recoil thermalization, phonon transport, and detector-response modeling - Caitlyn Stone-Whitehead
16:30-16:55	Ab initio framework for BCS superconductors - relevance to EC decay and signals - Benjamin Bacq-Labreuil
16:55-17:20	Discussion: integrated line shape - peak positions, widths, and spectral tails
EVE	LABORATORY VISIT, BOARD MEETING, AND DINNER
17:30-18:15	Collaboration photograph, followed by STM laboratory tour - IPCMS host group
18:15-19:00	Collaboration Board Meeting (closed): DOE Nuclear Physics renewal, funding, governance, and personnel
19:15	Depart campus for collaboration dinner
20:00	Collaboration dinner



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Next Measurements and the Future Experimental Program

IV	PHASE IV AND RECOIL-RESPONSE CONTROLS
09:00-09:20	Ta and Al STJs: resolution, nonlinearity, capping, and the LLNL control-measurement program - Stephan Friedrich
09:20-09:40	Characterizing BeEST STJs at Mines: MEMS scanning, dilution-refrigerator testing, and Phase-IV results - Joseph Templet
09:40-10:05	PNNL Phase-IV platform: cryogenics, readout, DAQ, shielding, and operational readiness - Francisco Ponce / PNNL team
10:05-10:25	Coffee break
10:25-10:40	^7Be measurements with TES/HVeV-style calorimeters - Brian Lenardo (remote)
10:40-10:55	Thermal TES measurements of electron capture in different host materials - Wouter Van De Pontseele (remote)
10:55-11:40	Discussion: Phase-IV detector and exposure strategy
V	ARGOS AND TRIUMF PRODUCTION / IMPLANTATION
11:40-12:05	ArgoS: the ^{37}Ar science case, experimental concept, and path to a first possible ISAC/ARIEL beam in late summer/fall 2027 - Annika Lennarz
12:05-12:25	Medical-cyclotron production of ^{37}Ar and prospects for in-situ and offline implantation - Megan Marquis
12:25-12:50	TRIUMF online implantation: failures, diagnostics, solutions, and the path to ISAC/ARIEL - Vincent Bosquet
12:50-13:50	Lunch
VI	OFFLINE IMPLANTATION AND THE NEXT SOURCE CAMPAIGNS
13:50-14:15	Mass-selected offline implantation at McGill - Thomas Brunner
14:15-14:35	Offline source preparation and implantation at PNNL: ^7Be and ^{37}Ar pathways - Francisco Ponce
14:35-15:05	Discussion: the next ^7Be campaign and the first ArgoS measurement
15:05-15:25	Coffee break
VII	SALER: FROM COMMISSIONING TO PHYSICS
15:25-15:50	SALER commissioning and first operation with an online ion beam - Drew Marino
15:50-16:10	SALER detector response, ion transport, secondary particles, and rate modeling - Driss Guillet
16:10-16:30	Recoil spectroscopy for BSM searches: opportunities with SALER and precision low-energy recoil measurements - Leendert Hayen
16:30-16:50	Discussion: commissioning completion and the first SALER physics measurement
VIII	PROGRAM PRIORITIES, PUBLICATIONS, AND MILESTONES
16:50-17:15	An integrated BeEST, ArgoS, and SALER program for 2027-2029 - Kyle Leach
17:15-17:40	Discussion: publications, deliverables, and upcoming proposals - Paper and project leads
17:40-17:50	Assignments, milestones, and next collaboration reviews - Kyle Leach
17:50-18:00	Closing remarks - Kyle Leach / Paul-Antoine Hervieux