

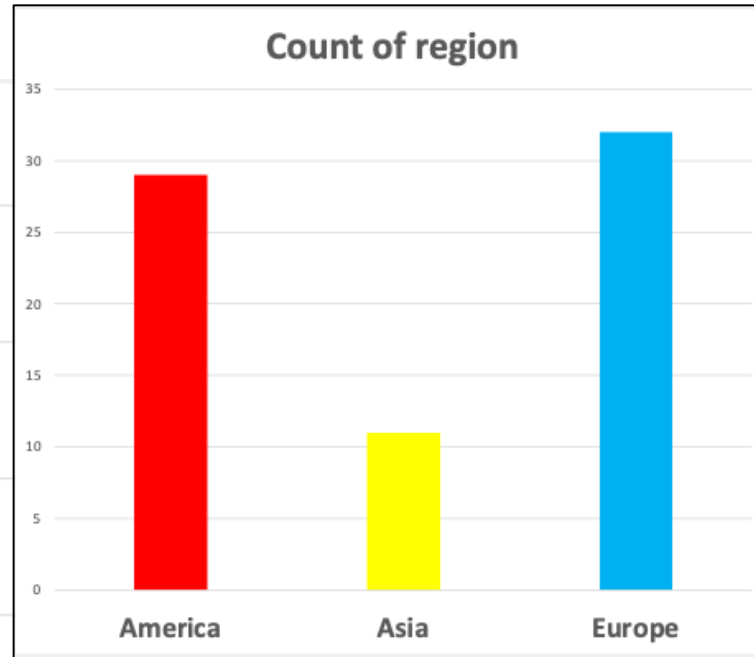
Summary of TTC remote WG high-Q/high-G meetings

Akira Miyazaki (IJCLab), Martina Martinello (SLAC), Kensei Umemori (KEK)

TTC2026 @ Paris region

Statistics of the remote WG high-Q/high-G

- 72 names on the list
- <https://conference-indico.kek.jp/category/77/>



Martina
Martinello



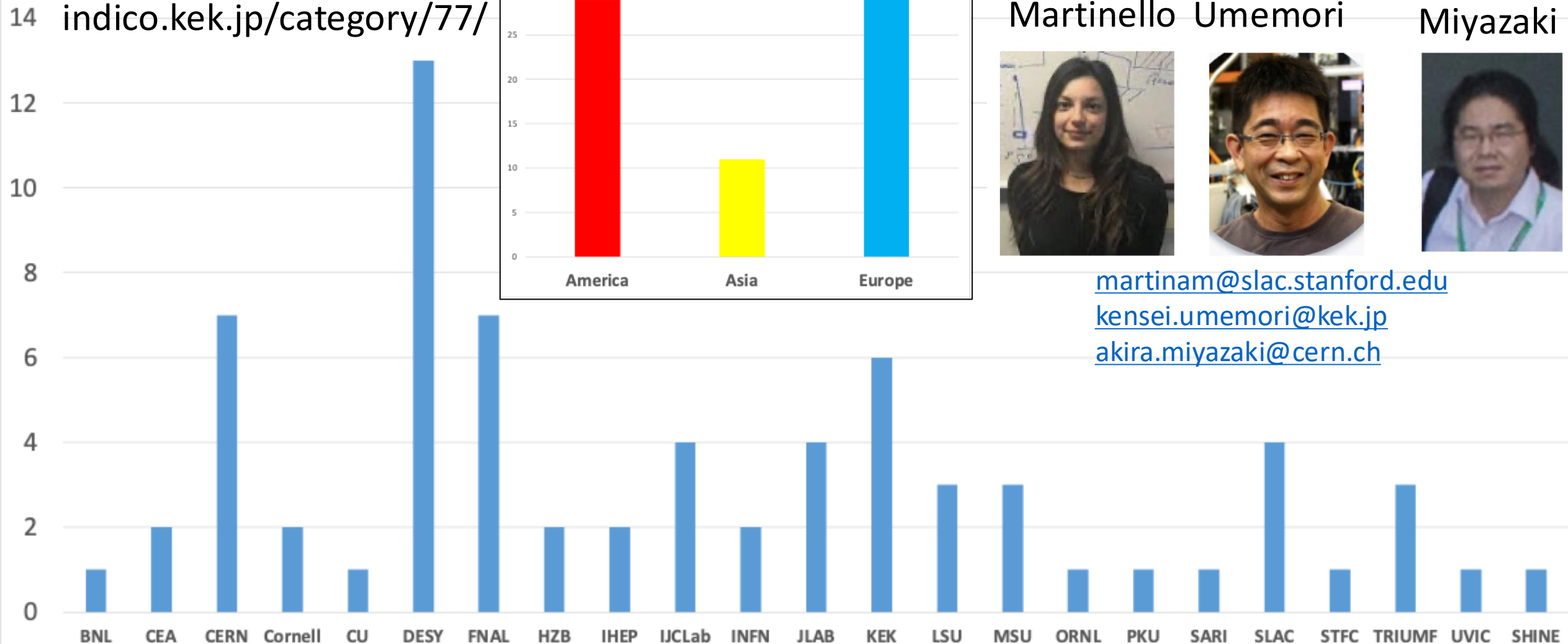
Kensei
Umemori



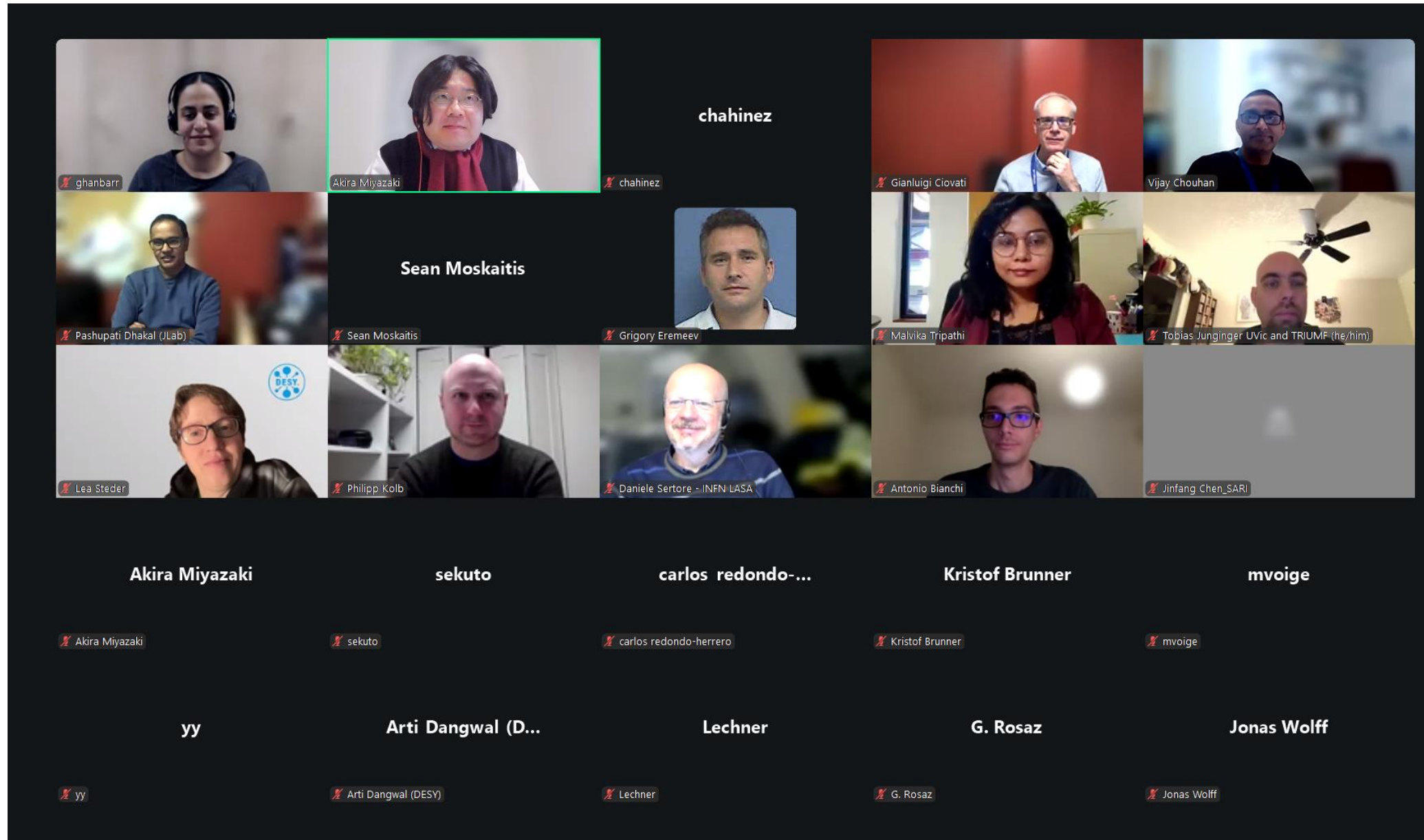
Akira
Miyazaki



martinam@slac.stanford.edu
kensei.umemori@kek.jp
akira.miyazaki@cern.ch



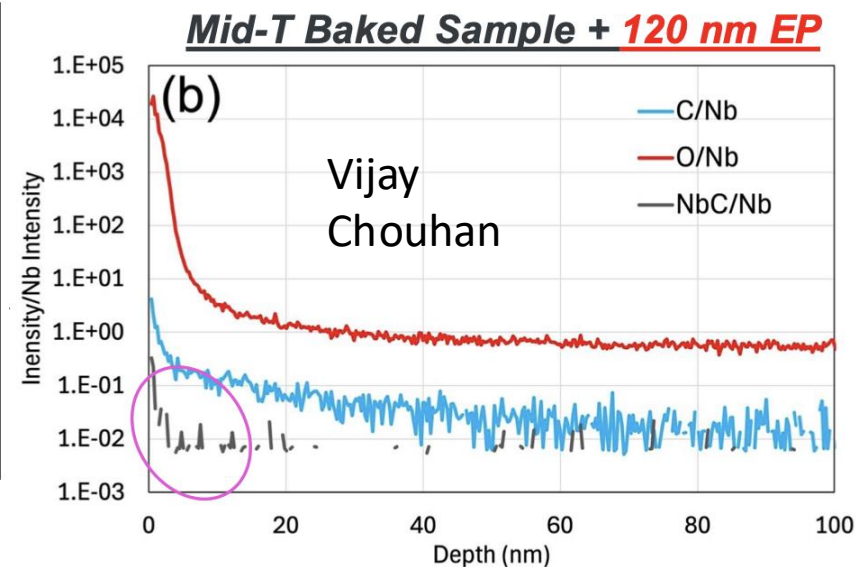
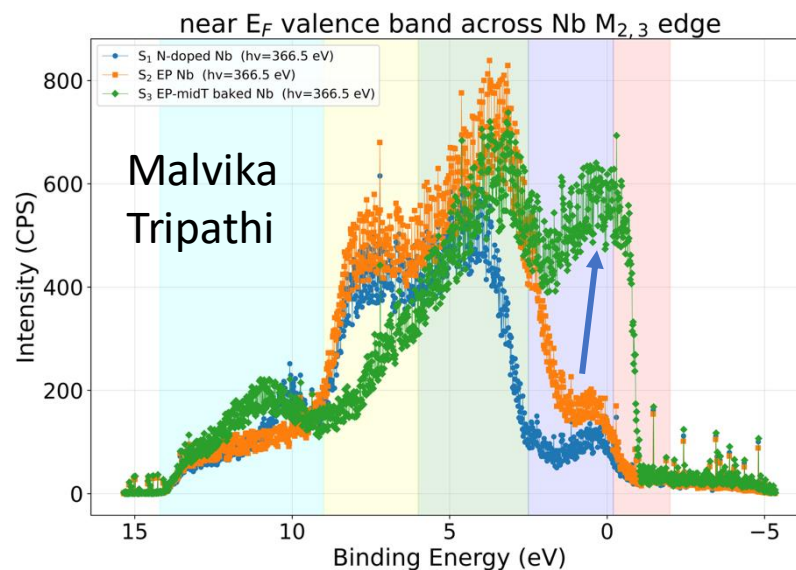
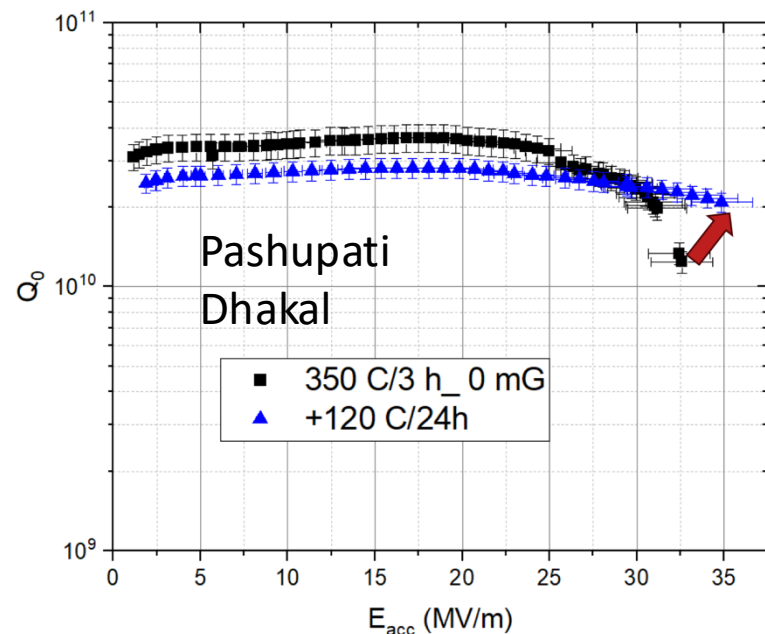
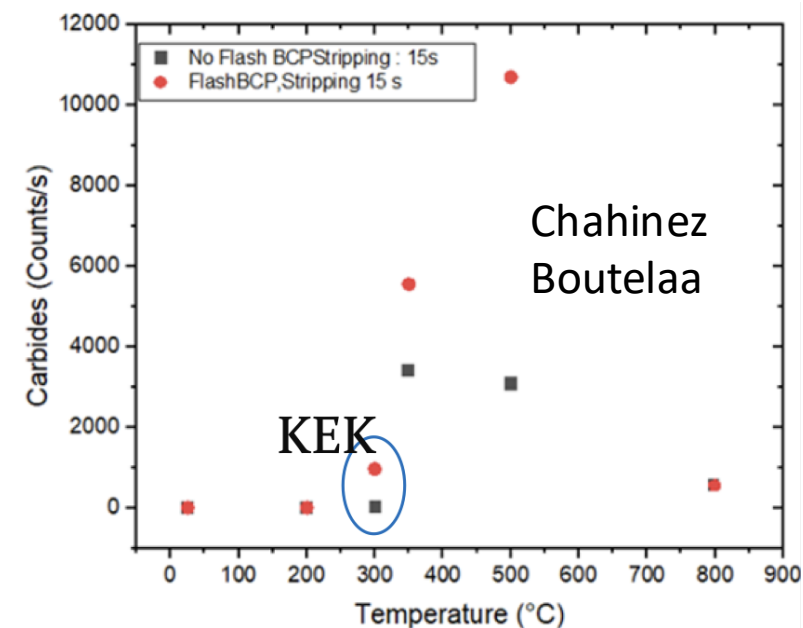
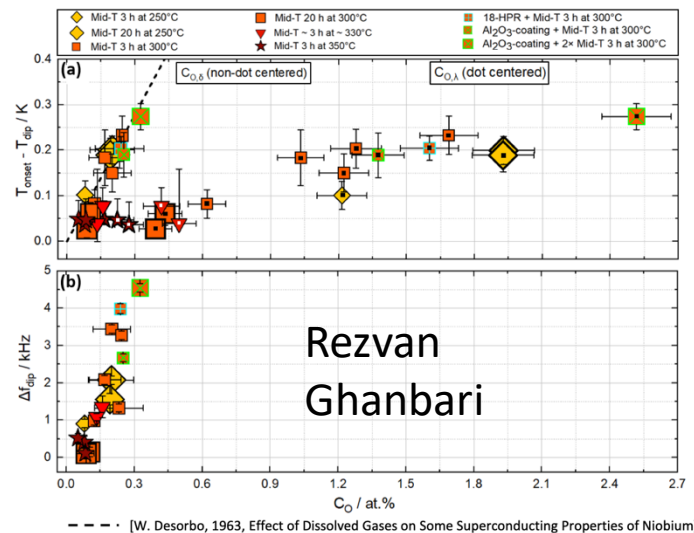
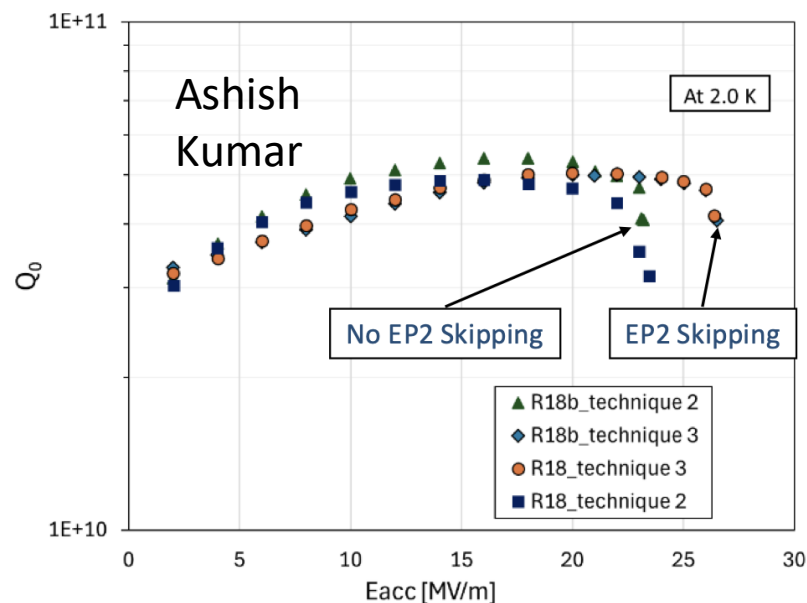
1st meeting in December 2025: max 39 participants



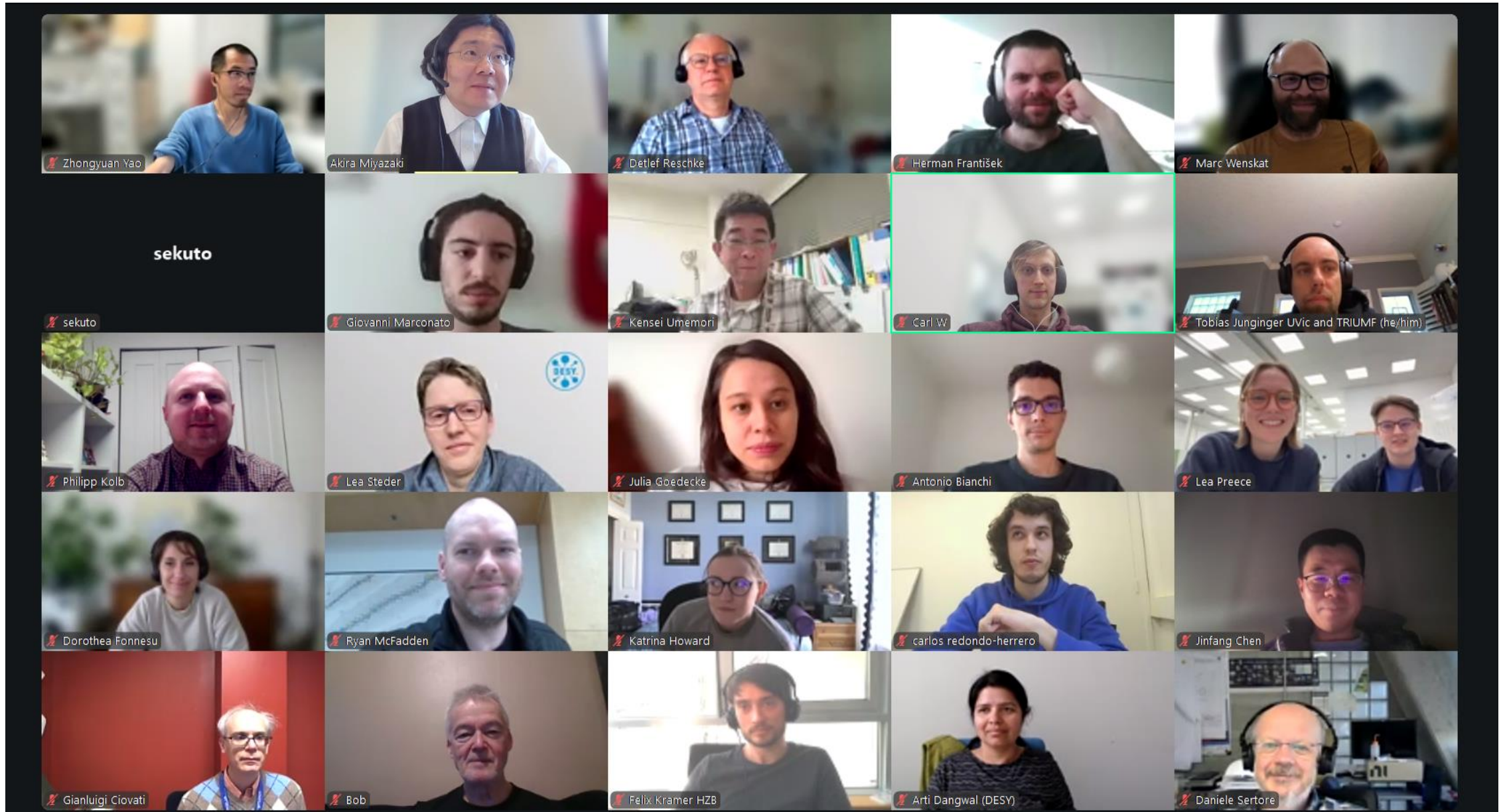
1st meeting in December 2025: 6 contributions

Mid-T furnace baking study on 1-Cell MG Nb Cavities	<i>Ashish Kumar</i>	
15:00 - 15:20		
Study of Interstitial Oxygen Near the Surface of Mid-T Heat-Treated Nb SRF Cavities: Frequency Shift Analysis		
<i>Rezvan Ghanbari</i>		
Nb Carbides study on Nb samples after heat treatments for SRF cavities	<i>Chaninez Boutelaa</i>	
15:40 - 16:00		
Status of mid-T bake at Jlab	<i>Pashupati Dhakal</i>	
16:00 - 16:20		
Correlating Nb-SRF Surface Processing with Evolution of Surface Electronic States	<i>Malvika Tripathi</i>	
16:20 - 16:40		
Understanding surface contamination effects in mid-T baked cavities	<i>Vijay Chouhan</i>	
16:40 - 17:00		

Highlights of the 1st meeting: before/after mid-T



2nd meeting in March 2026: max 41 participants



2nd meeting in March 2026: 4 contributions

Local-limit disorder characteristics of niobium-based superconducting radio-frequency cavities

Frantisek Herman



15:00 - 15:30

QPR measurement on mid-T baked 800 MHz Nb and Nb₃Sn samples

Carl Weiss



15:30 - 16:00

Update on low RRR niobium vs flux expulsion

Katrina Howard



16:00 - 16:30

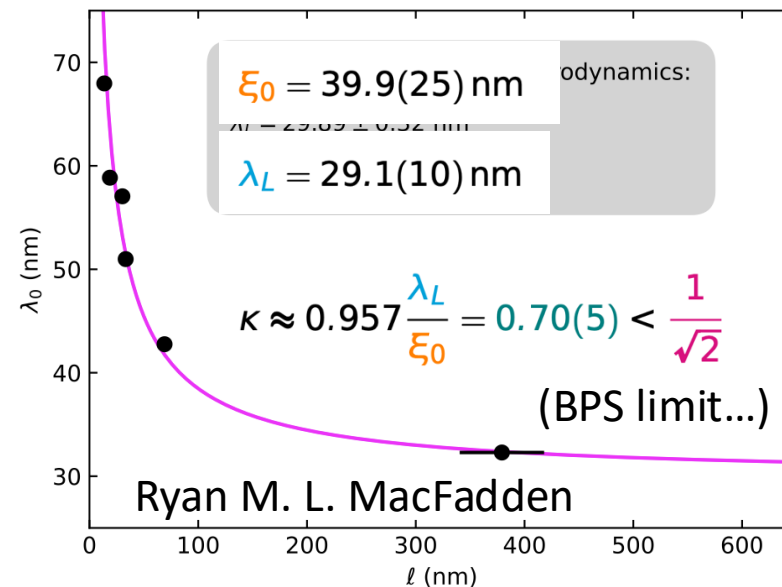
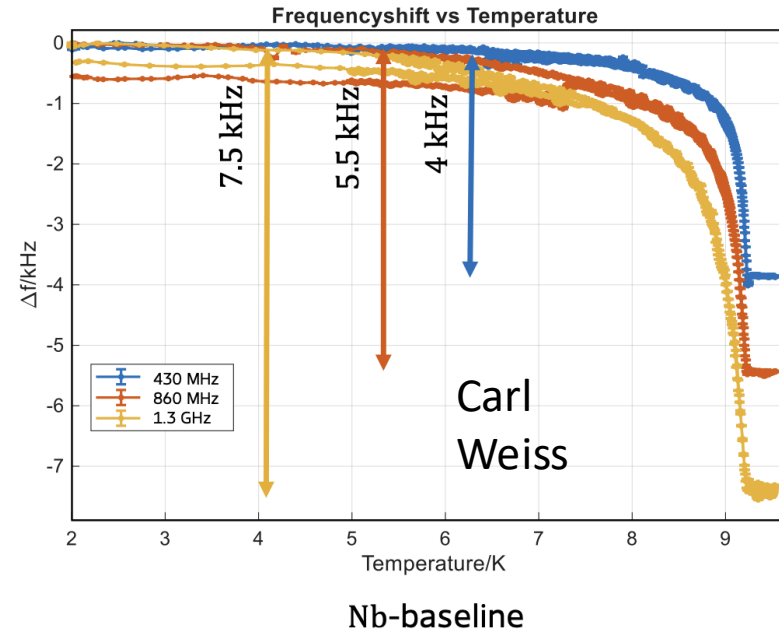
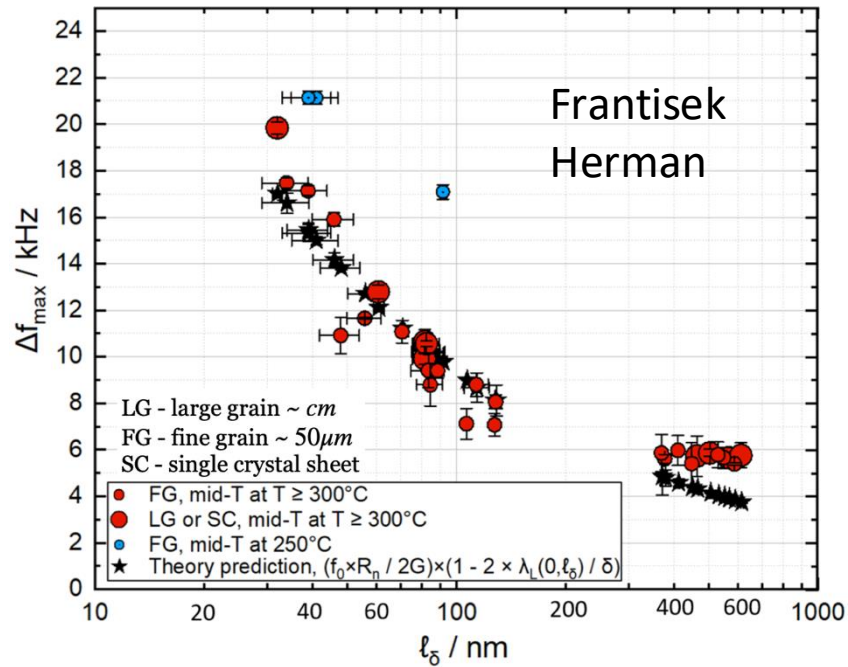
Niobium's intrinsic coherence length and penetration depth revisited using low-energy muon spin spectroscopy and se

Ryan MacFadden

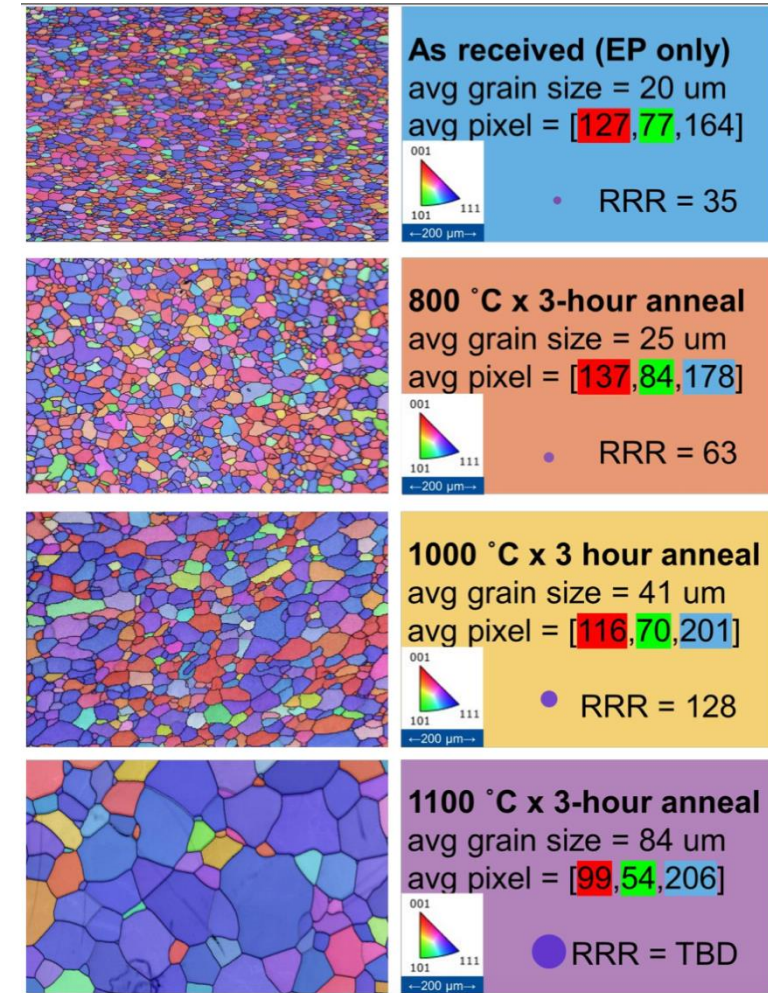


<https://conference-indico.kek.jp/event/368/overview>

Highlights of the 2nd meeting: theory to material



Katrina Haward



Did we observe similar tendency during LCLSII for high RRR samples?

Conclusion

- Two meetings per year
- Around 40 participants / 72 names registered
- Complement researchers with VISA / funding issues for in-person meetings
- Studies around mid-T seem like a hot topic
 - RF measurement, pre-/post-chemistry, material studies, theoretical models
 - This could be biased by Akira's personal interests
- Broad subjects are welcome
- Next meeting? → Autumn-winter 2026