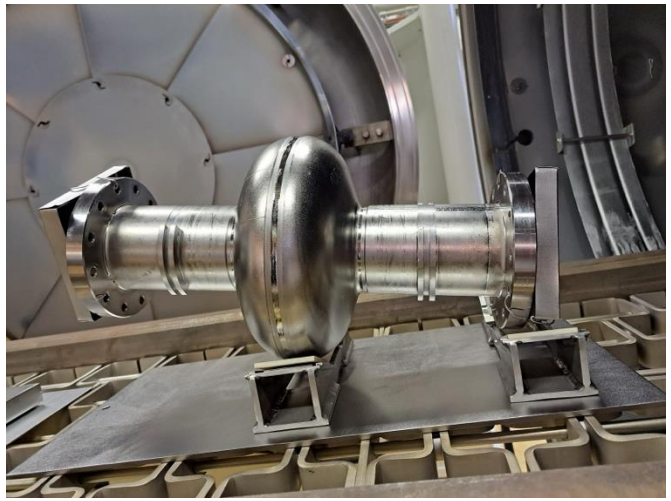
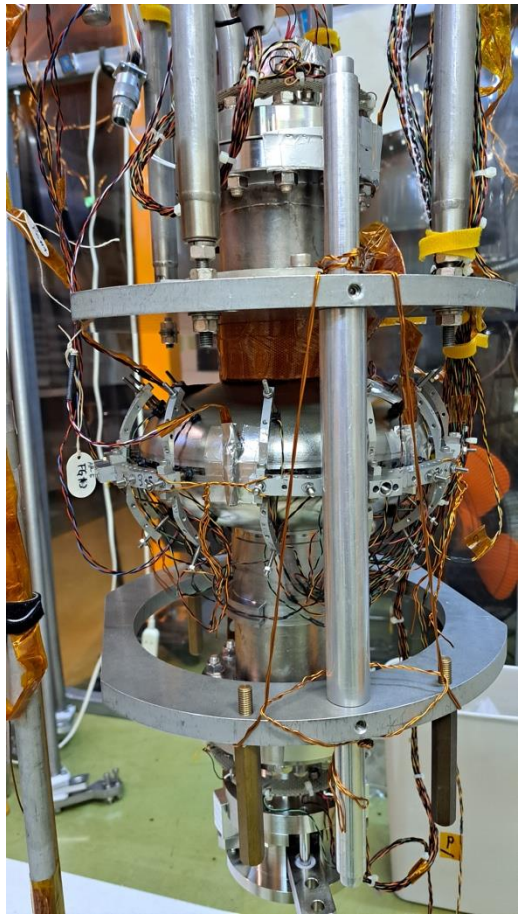
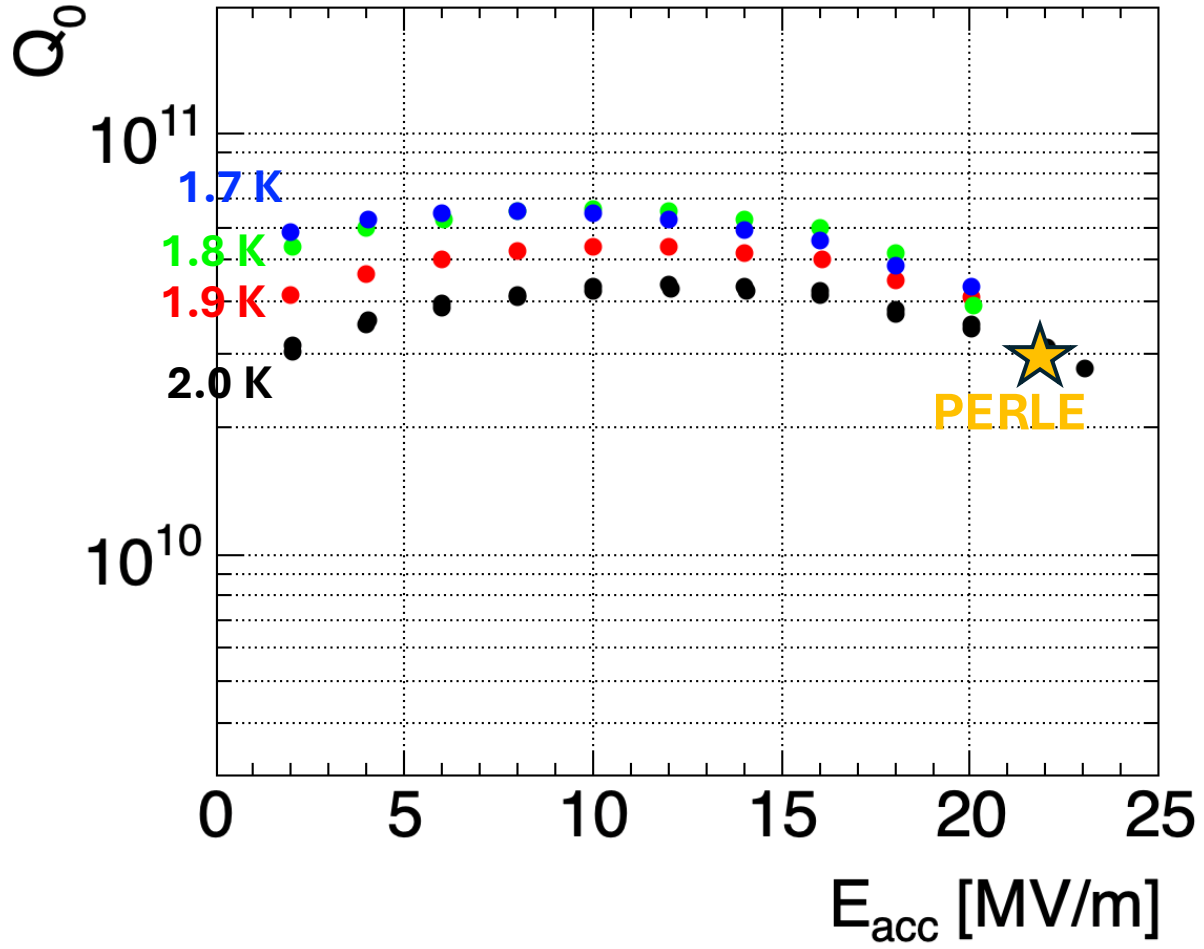
New ideas for ILC-ITN cavity activities

Akira Miyazaki

Our standing point so far: furnace is useful for FCCee and PERLE

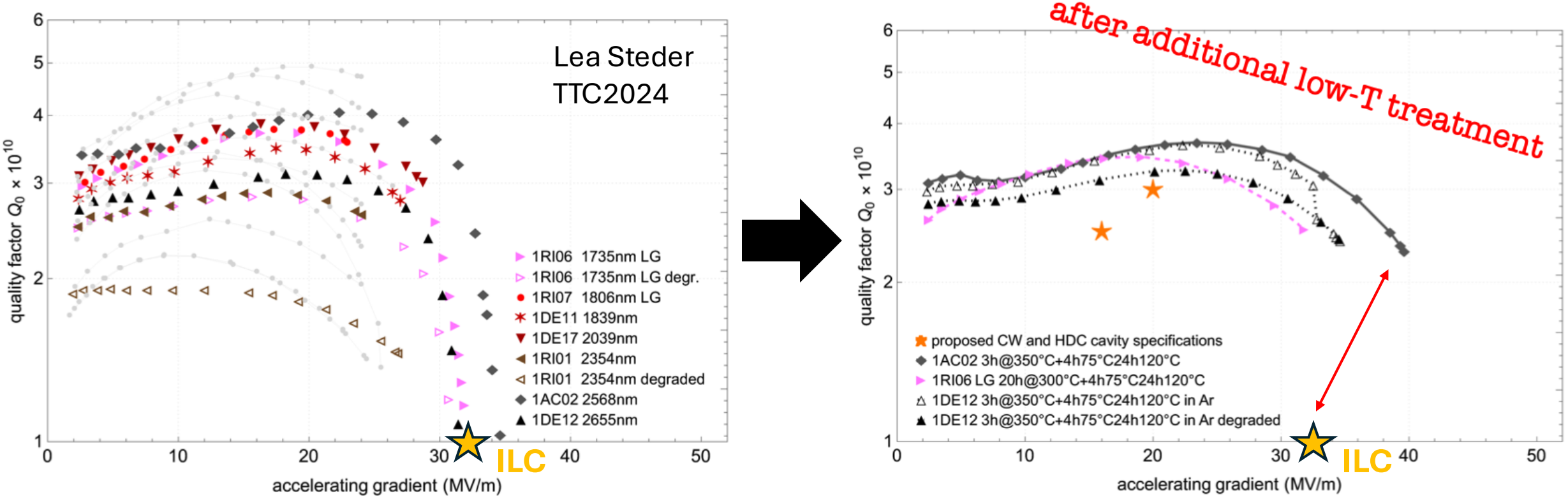






- 300C heat treatment in IJCLab's vacuum furnace successfully achieved the cavity performance comparable to PERLE and FCCee → high-Q around 20 MV/m
- This is NOT a high-gradient recipe for ILC (32 MV/m)

New insight from DESY: 350C + 120C



- CEA does not have a vacuum furnace
- ILC-ITN standard in CEA Saclay is 75C + 120C → we are not necessary ☹
- New DESY approached of 350C + 120C → our vacuum furnace is necessary ☺
- We may offer heat treatment for CEA to be involved in ILC-ITN cavity business
- I am trying to launch a cavity collaboration: CEA-DESY-IJCLab → next ANR-DFG application (?)