

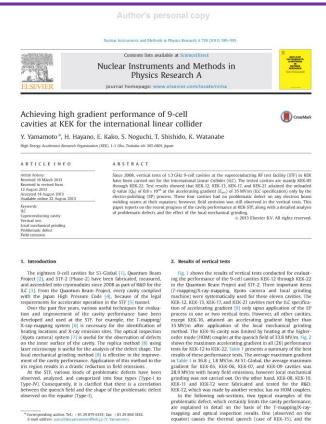
KEK Status Report



Recently published

Nuclear Instruments and Methods in Physics Research A 729 (2013) 589-595

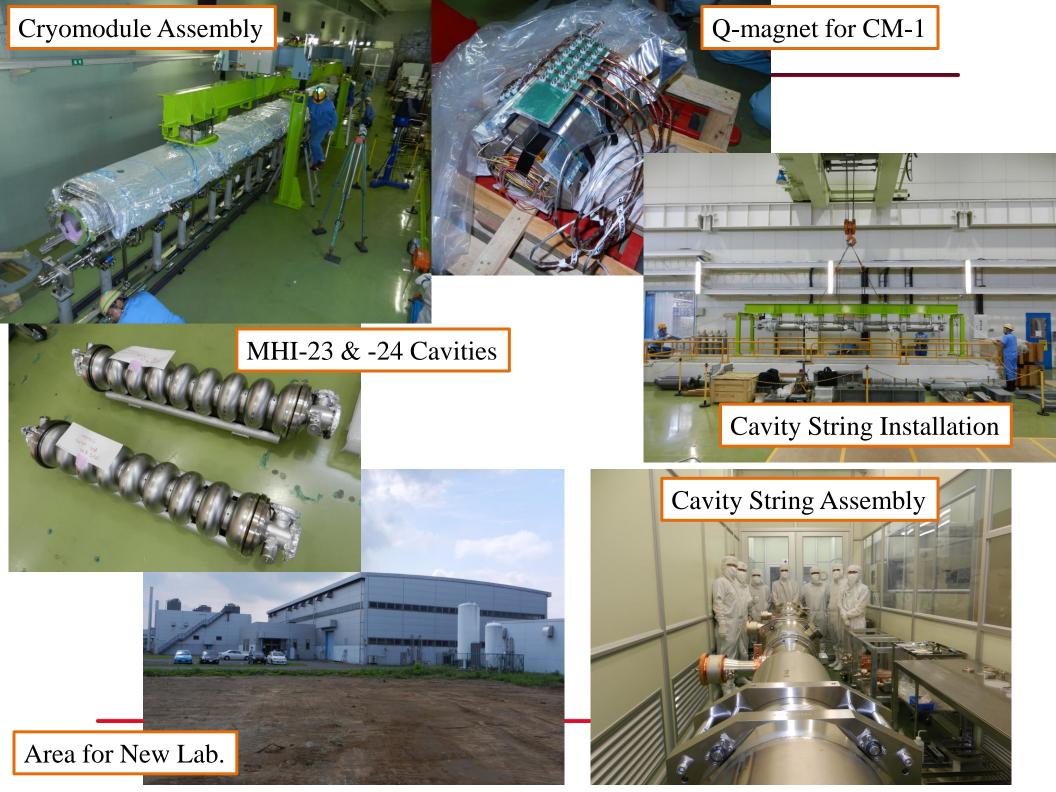
Cavity performance in STF from 2008-2012 summarized



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STF Status

- STF-2 Cryomodule (CM-1, 8 cavities & Q-magnet)
 - Assembly working on going
 - CM-2a (half size) assembly will start from next year
- Cavity
 - MHI-23~-26 cavities for CM-2a vertical testing as 1st pass
- Others
 - New Lab. Construction (COI) will finish in F.Y. 2014 in north area of STF
 - In-house cavity (KEK-01) to be fabricated in CFF
 - Seamless & Large Grain single cell cavities to be fabricated in CFF



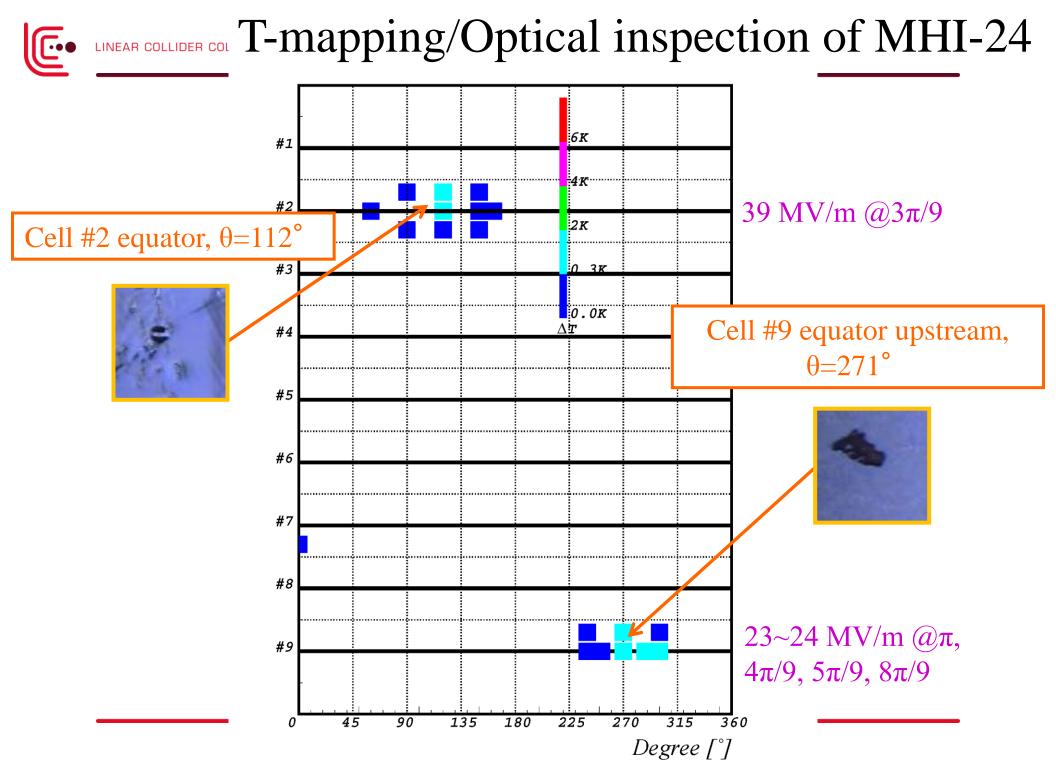


Cavity performance

- **>** MHI-23
 - ➤ 31.3 MV/m, 9.35x10⁹, thermal quench, little X-rays
- ➤ MHI-24
 - ≥ 22.7 MV/m, 1.15x10¹⁰, thermal quench, heavy field emission
- ➤ MHI-25
 - > 32.8 MV/m, 8.23x10⁹, thermal quench, No X-rays
- ➤ MHI-26
 - ➤ 26.1 MV/m, 3.46x10⁹, administration limit (radiation), heavy field emission



Every cavity has to go to 2nd test!



Thank you