

Update at Peking University

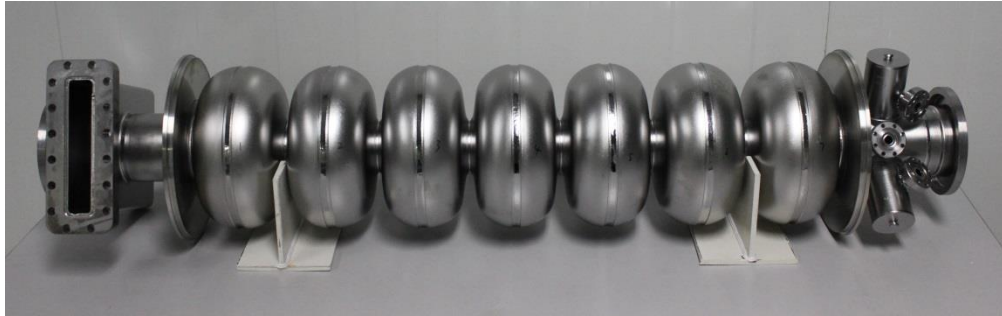
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LCC-ILC-Cavity Meeting
March 04, 2015

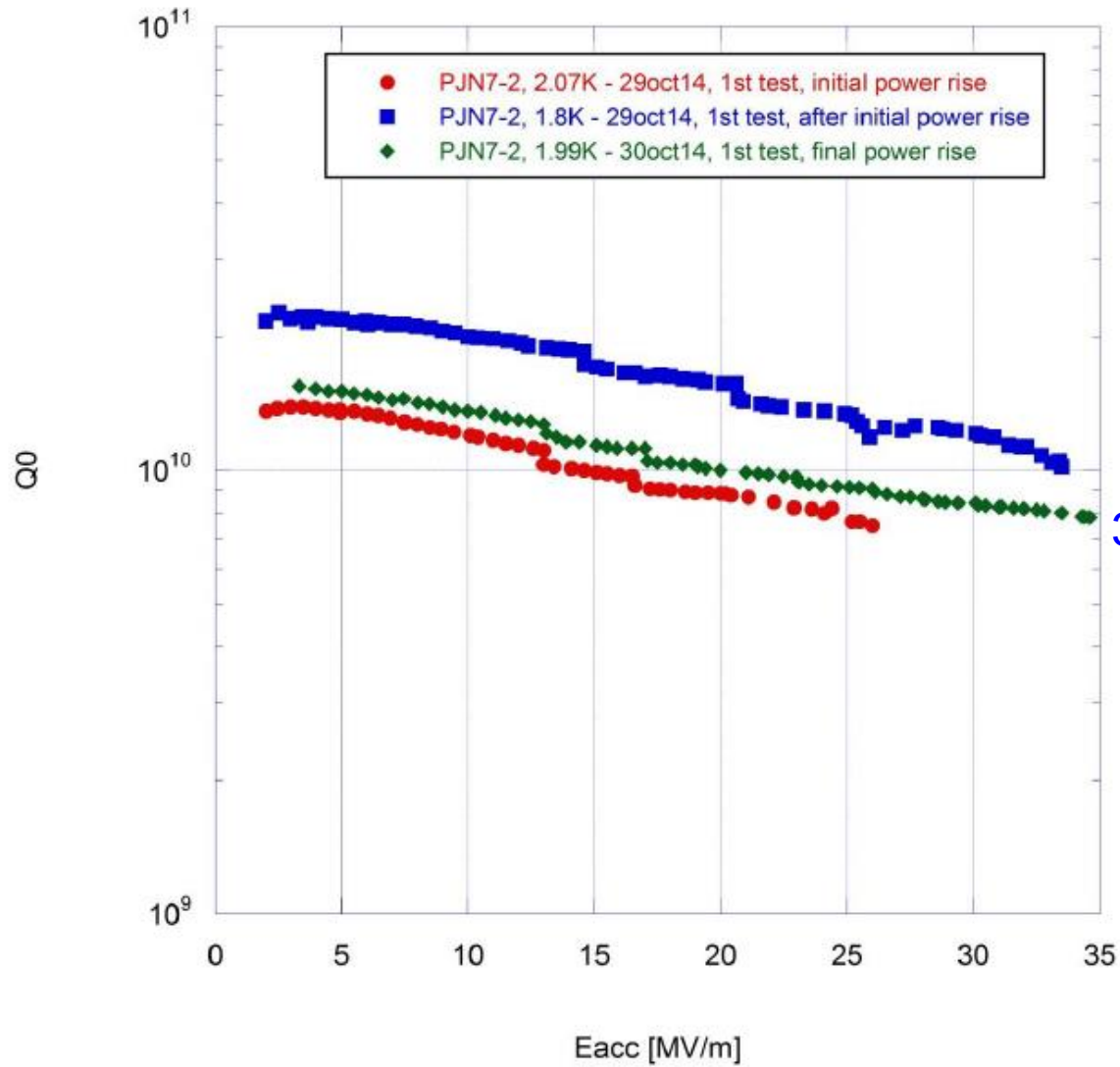
Second 7-cell CEBAF cavity (PJN7-2)

PKU/JLAB/OSTEC Collaboration



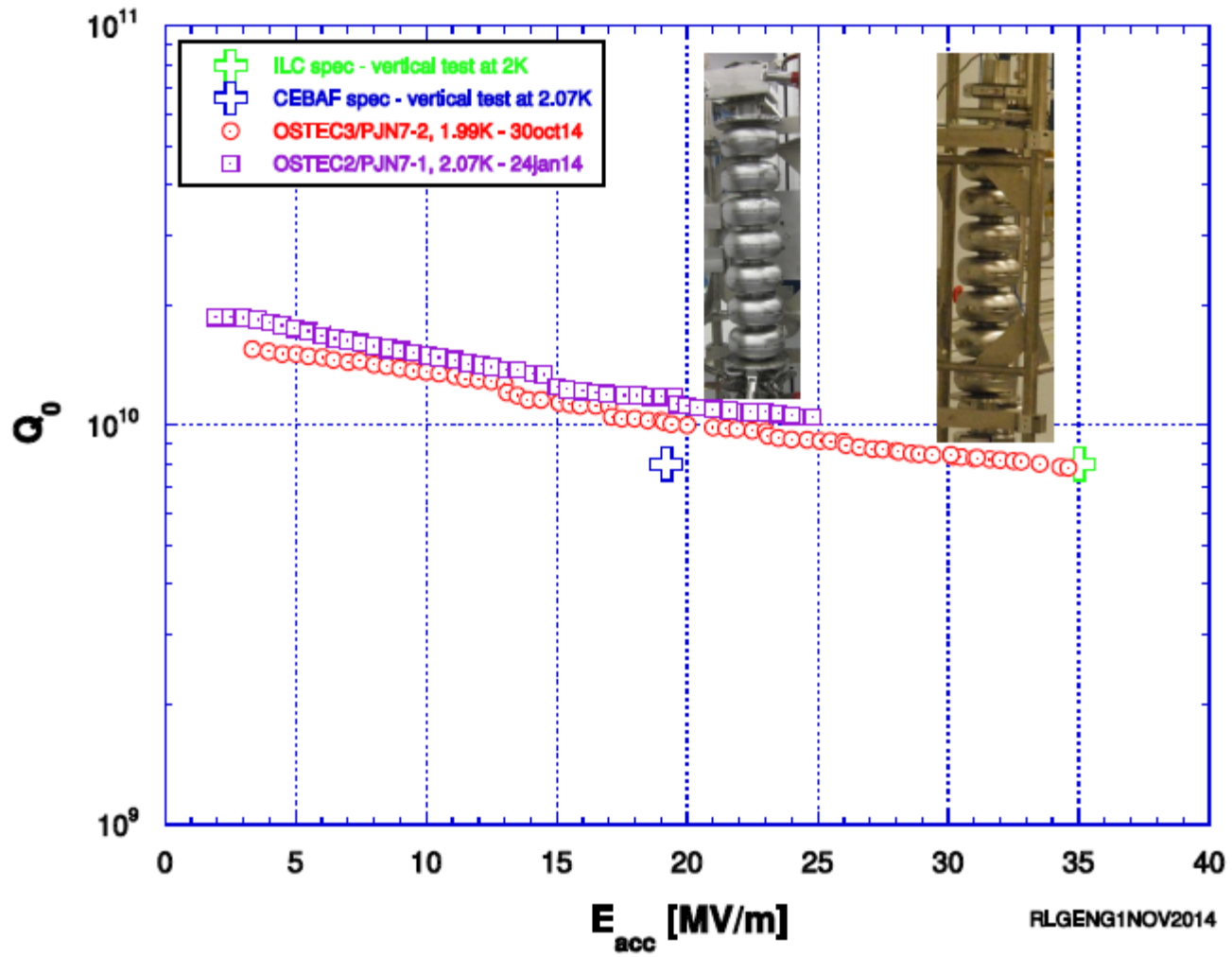
- 1st test at Jlab by Rongli Geng
 - BCP 120 μm
 - Heat treatment: 600°C, 10 h
 - EP 30 μm
 - HPR
 - Bake: 120°C , 48 h

PJN7-2 1st RF test

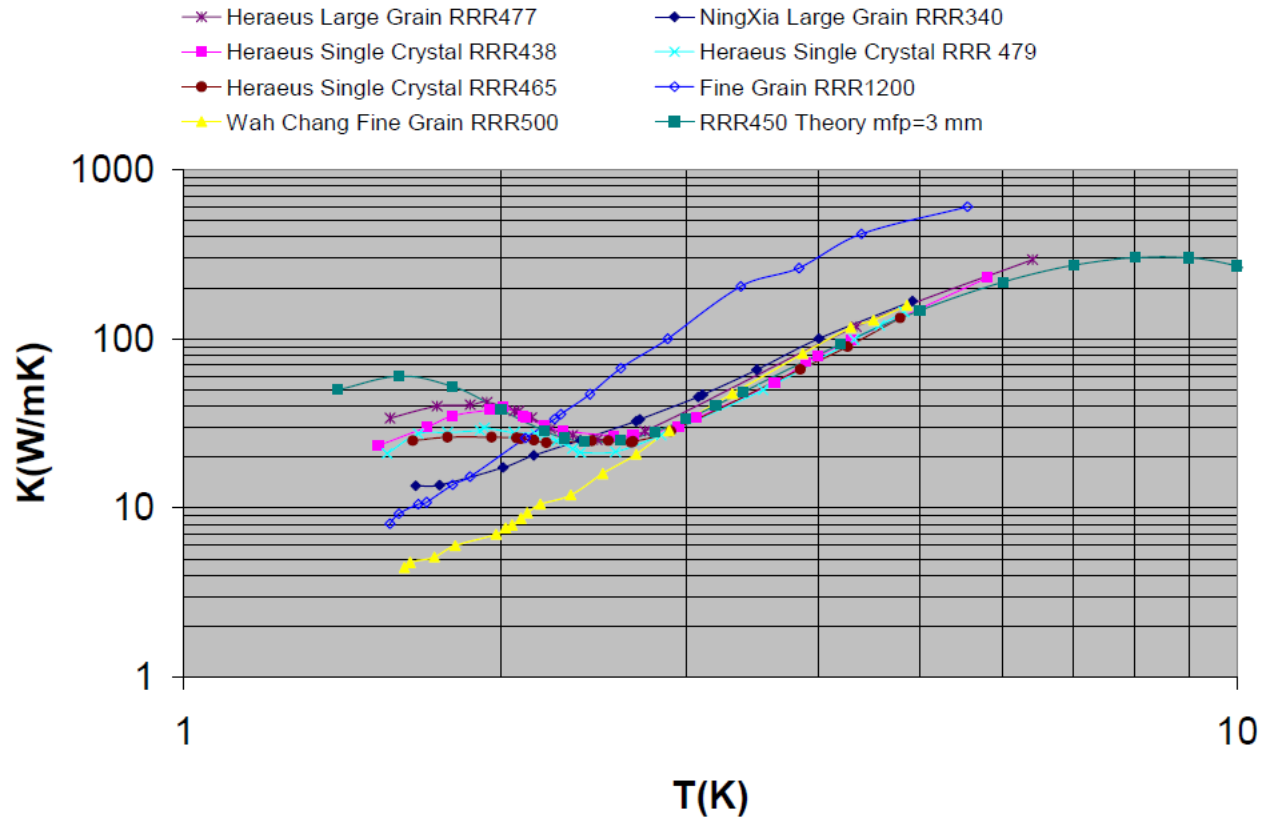


35 MV/m, $Q_0=8E9$, at 2 K

Two 7-Cell 1.5 GHz Full-Scale CEBAF 12 GeV SStyle Niobium Cavity



Studies of Thermal Conductivity of Ningxia Large Grain Niobium

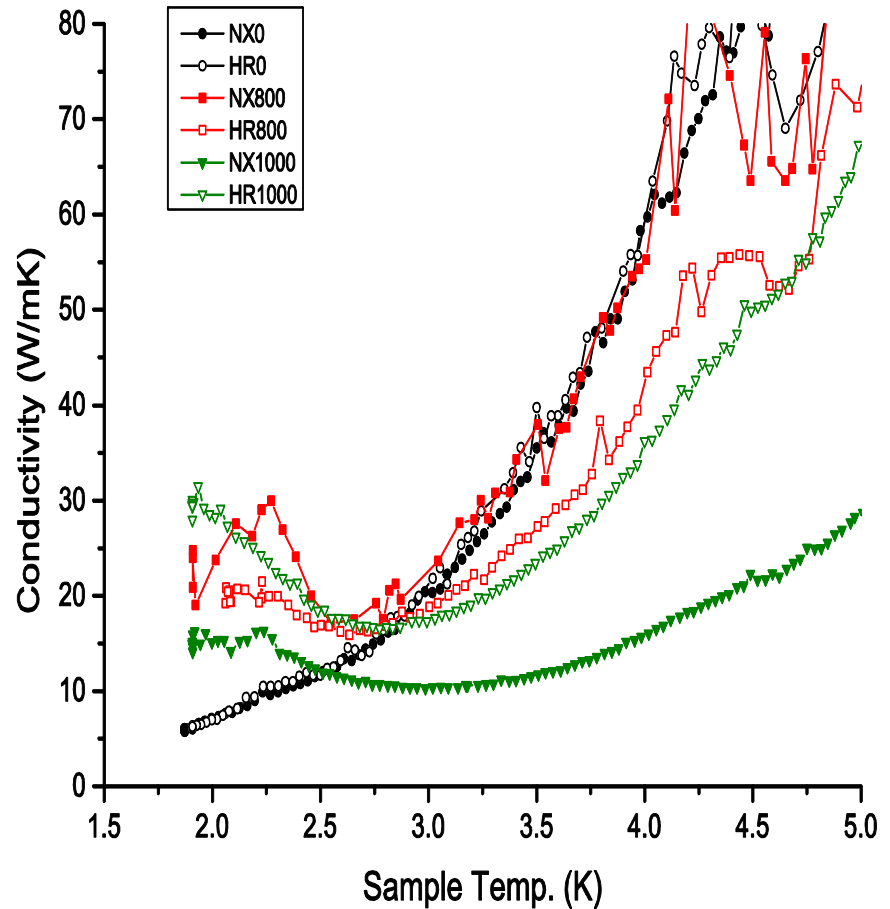


A. Ermakov et al. Journal of Physics: Conference Series 97 (2008) 012014

Studies of Thermal Conductivity of Ningxia Large Grain Niobium

sample	Company	treatment (°C)
NX1	OTIC	-
HR1	Heraeus	-
NX2	OTIC	800
HR2	Heraeus	800
NX3	OTIC	1000
HR3	Heraeus	1000

(1000°C without Ti getter)



Phonon peak of OTIC LG niobium recovered after heat treatment