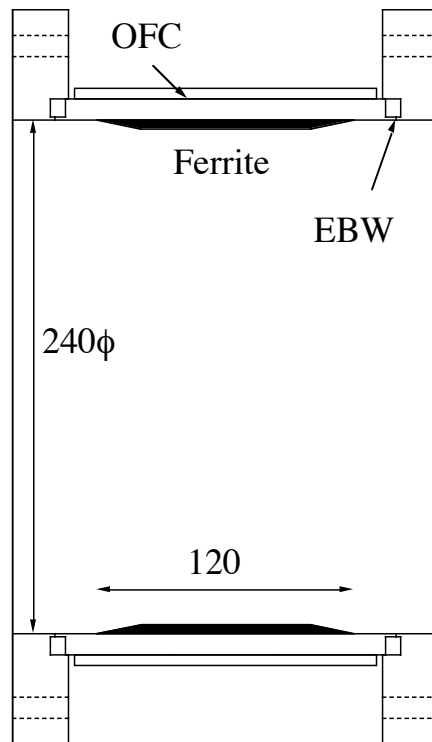


# HOM Damper for Crab Cavity

Y. Morita

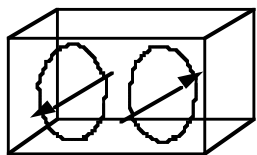
# HOM Damper

T. Tajima



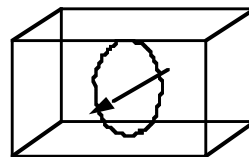
- Ferrite damper
- Coaxial HOM Damper  
188φ, 4t x 150 mm
- LBP HOM Damper  
240φ, 4t x 120 mm
- Hot Isostatic Press (HIP)  
1500 atm, 900 °C

# Higher and the Lowest Order Modes

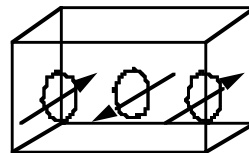


TM210  
Crab Mode

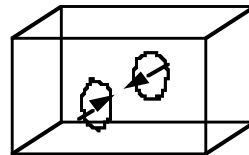
TM110  
Lowest order mode



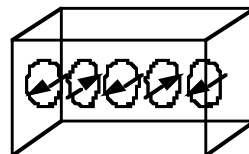
TM310



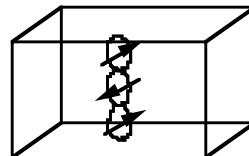
TM111



TM510



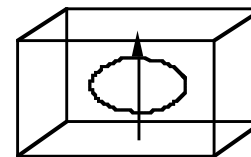
TM130



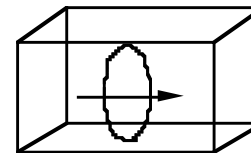
Monopole

Dipole

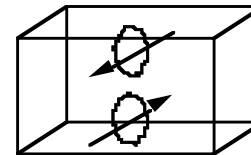
TE101



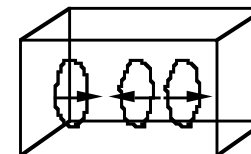
TE011



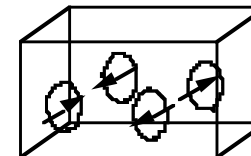
TM120



TE211

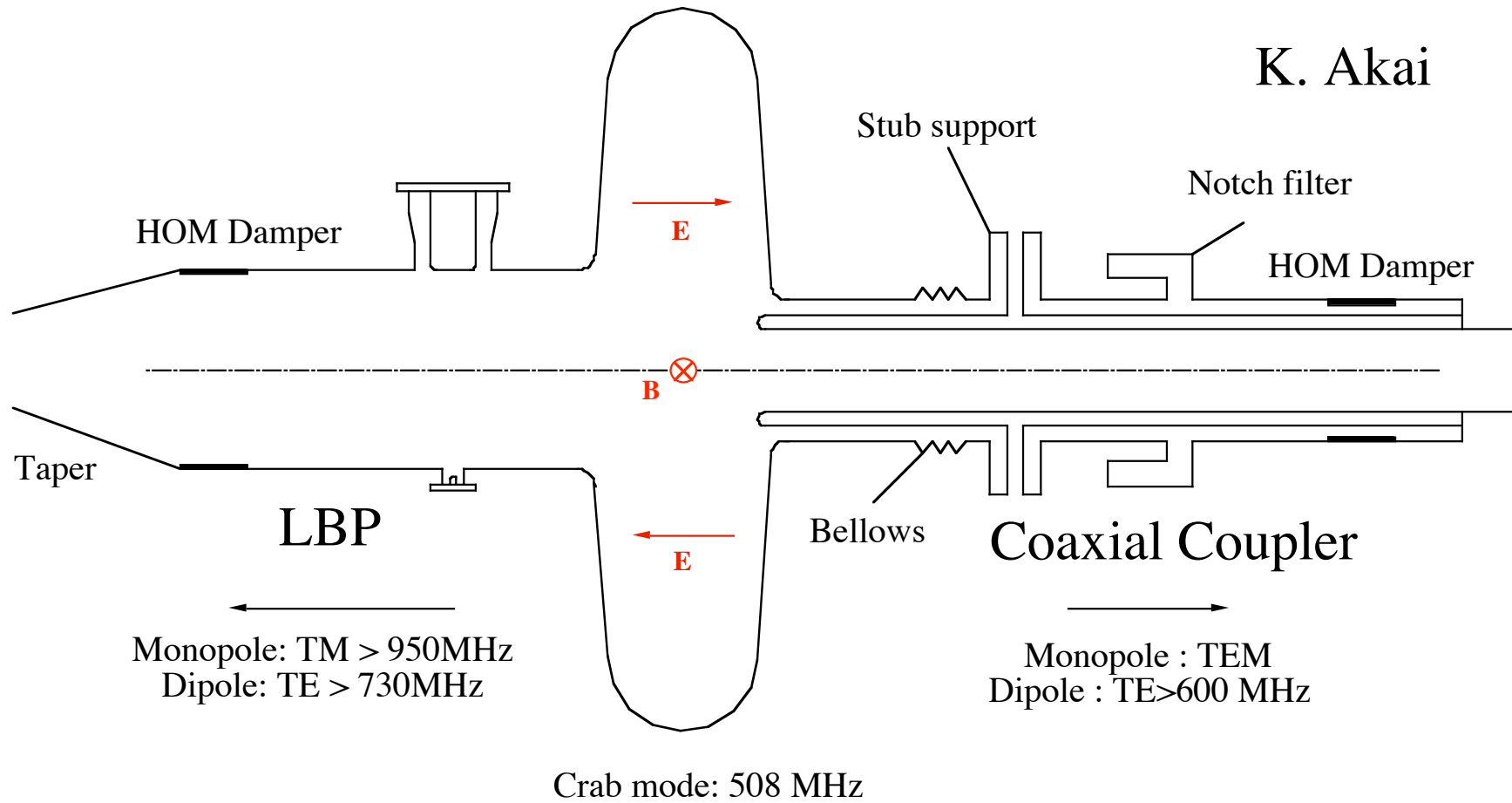


TM211

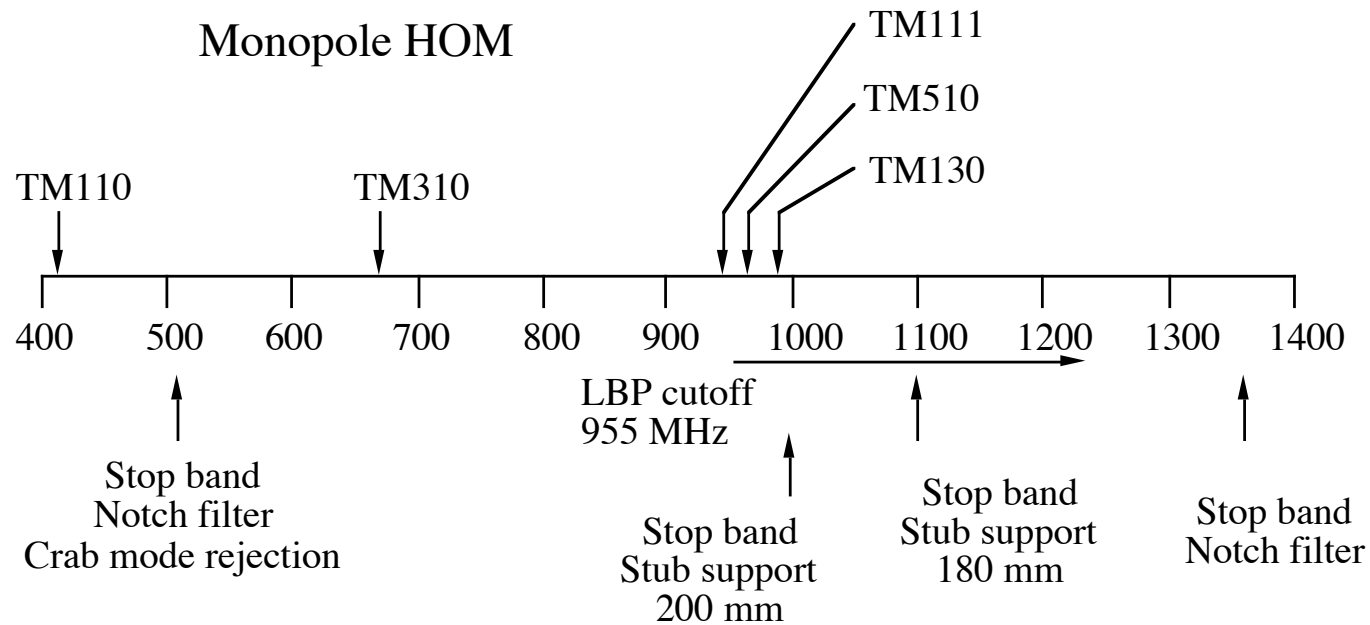


# HOM Damping Scheme

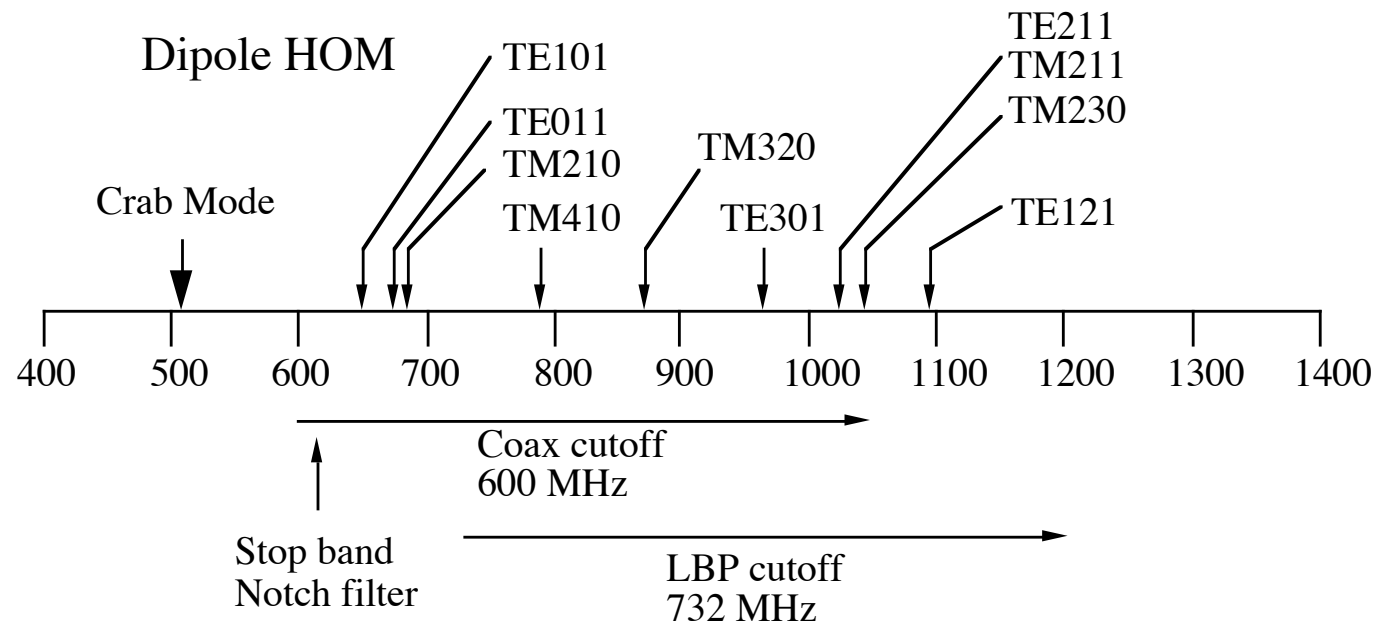
K. Akai



# Adjustment of Stop Band for Monopole Modes



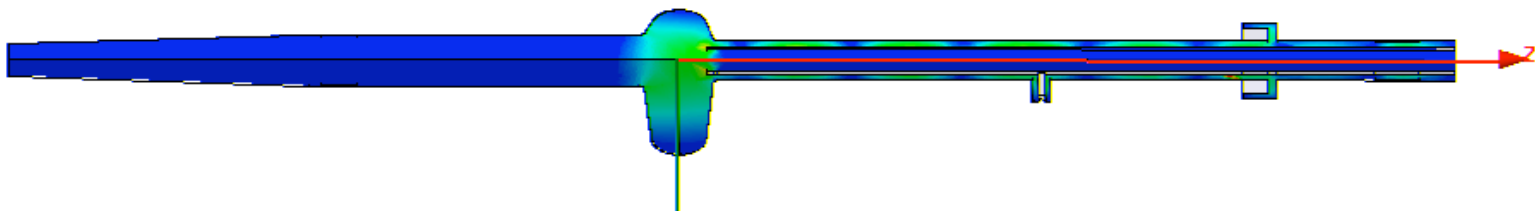
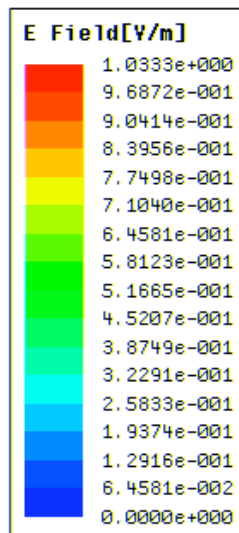
# Adjustment of Stop Band for Dipole Modes



# Optimization of HOM Damper Position

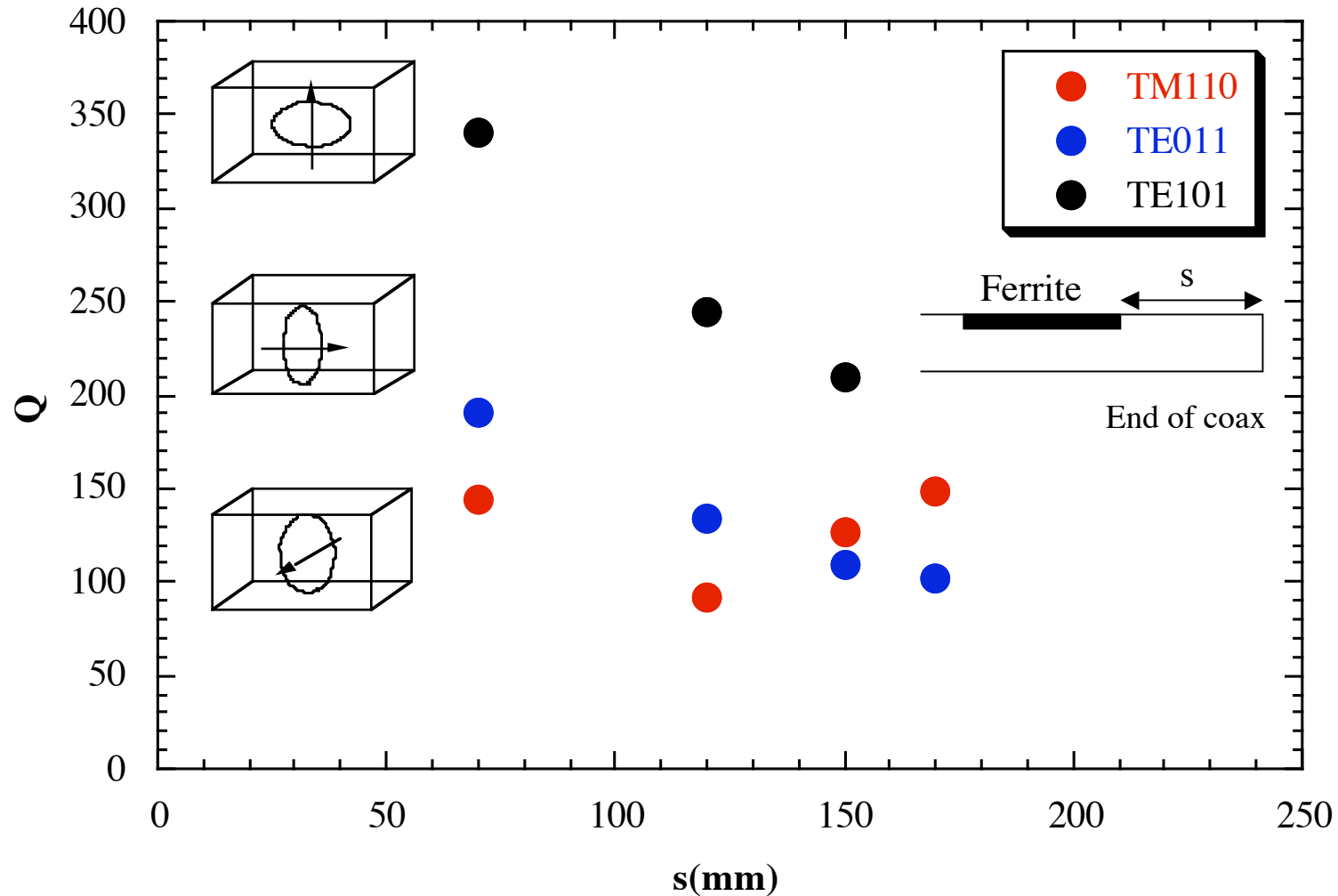
## Quality Factor of HOM

HFSS Eigenmode Solver



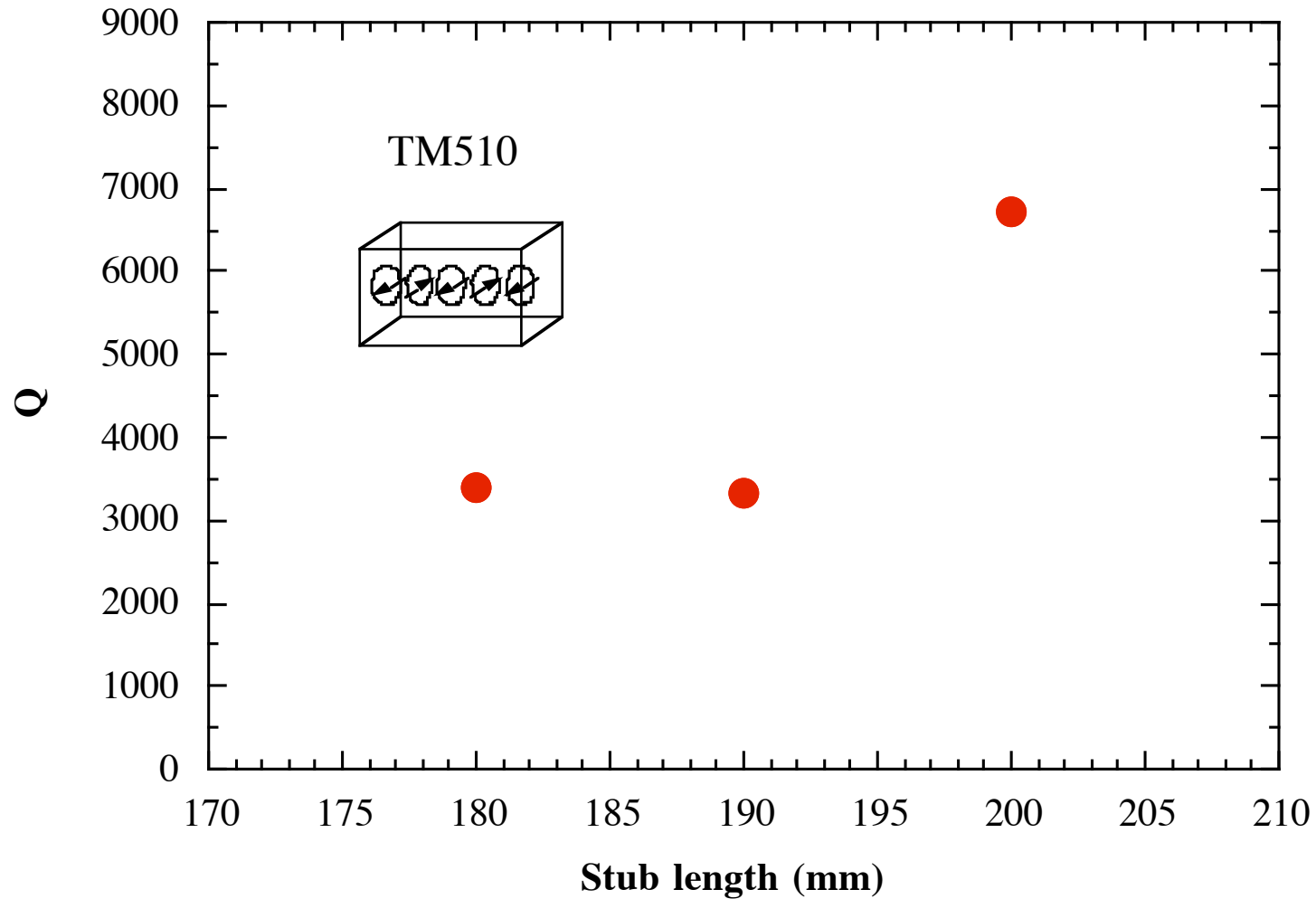
# Optimization of Coaxial Damper

coax150stub200

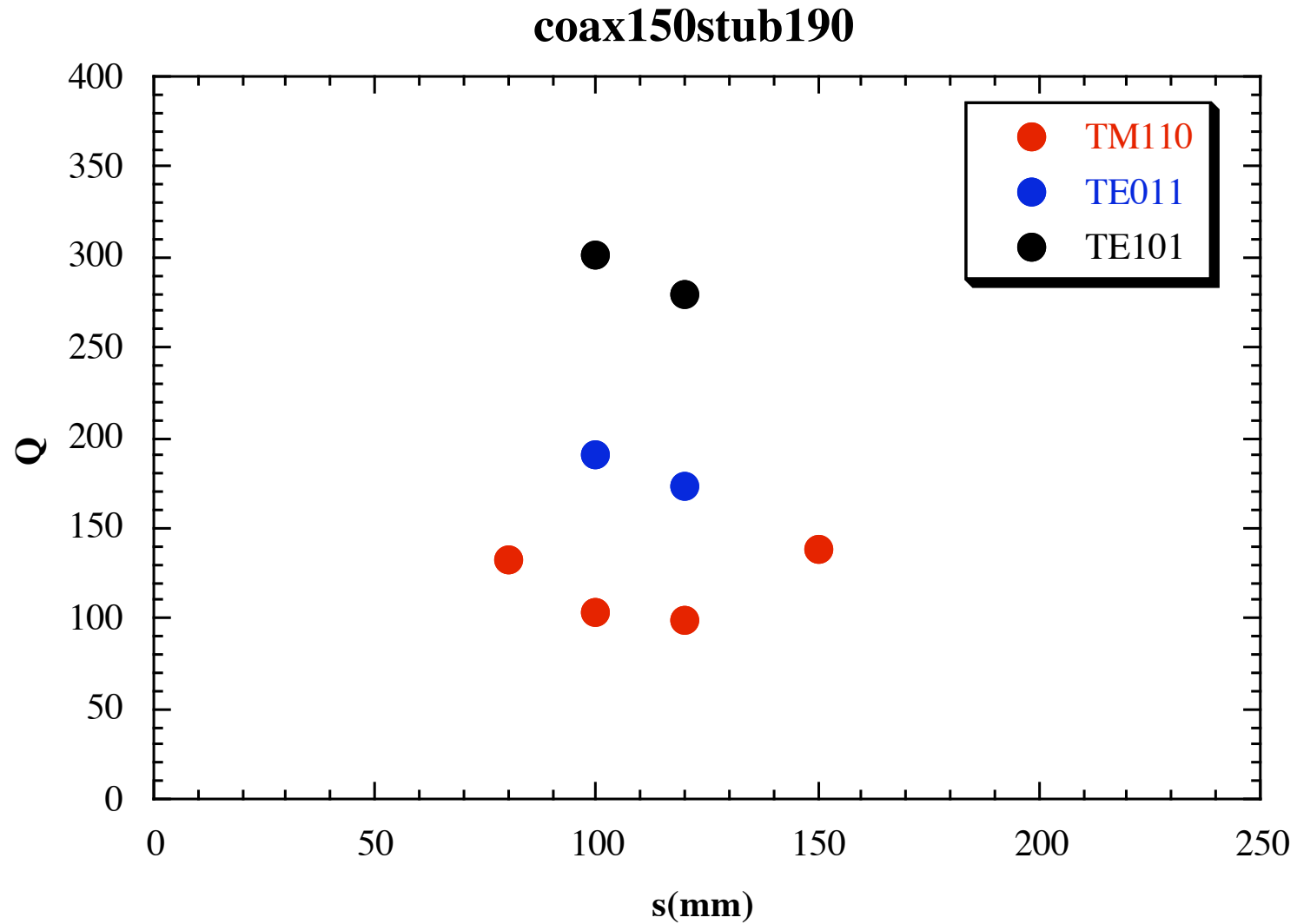




# Optimization of Stub Support



# Optimization of Coaxial Damper



# Time Schedule

T. Furuya

