

## **Consideration of 2K Operation**

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The difference between 2 K and 4 K operations in terms of the cavity performance will be discussed. We have experienced with some 700-MHz, 5-cell,  $\beta=0.64$  elliptical cavities that the maximum accelerating gradient was much higher at 2 K than that at 4 K. With the tests with the ANL 340-MHz,  $\beta=0.29$ , 2-gap spoke cavity and LANL 350-MHz,  $\beta=0.175$ , 2-gap spoke cavity, the maximum gradient at 4 K and 2 K have been the same so far. The difference of  $Q_0$  will also be discussed as well as a crude discussion of the difference in installation and operational costs.