

## **SULFUR GENERATION MECHANISM DURING ELECTROPOLISHING WITH NIOBIUM CAVITIES**

K. Saito, F. Furuta, KEK, Ibaraki

### *Abstract*

Electropolishing is well known to have surfer contamination on niobium cavities. So far many efforts have been done in order to remove the contamination in the SRF community: H<sub>2</sub>O<sub>2</sub> rinsing, Degreasing and Ethanol rinsing so on. Nobody understands the surfer generation mechanism, however recently we have found it. By the understating, we have taken a cure for our EP and no surfer has happened by naked eye inspection. In this pare we will present about the surfer generation mechanism and the cure.

**CONTRIBUTION NOT  
RECEIVED**