

ACCELERATOR SEMINAR

“Centrifugal Barrel Polishing of Superconducting RF Cavities at Fermilab”

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Centrifugal barrel polishing (CBP) is an alternative technique to process the inside surface of superconducting RF cavities. It is important to find cavity processing techniques that can with high repeatability yield cavities with high accelerating gradients and good quality factors to minimize installed and operating costs of next generation particle accelerators. CBP is proposed as a replacement to the standard processing technique of electropolishing because CBP yields smoother surfaces with less concentrated acid and removes damage associated with the electron beam welding process. The current status of and proposed future work on the CBP process at Fermilab will be discussed.

Thursday, April 21, 2011

11:00 a.m.

CEBAF Center, Room F113

Coffee before seminar at 10:45 a.m.