

OLAV 1



Contribution ID: 21

Type: **not specified**

The Recent Cyclotron Vacuum System Problems.

Tuesday 12 April 2005 09:00 (15 minutes)

The cyclotron at TRIUMF was built in 1972 and commissioned to full energy in 1974. The cyclotron vacuum tank is very complex with a total of 208 ports and a main double seal 17 meters in diameter. The volume of the tank is about 100 m³ and operates at 2×10^{-8} Torr. The vacuum is achieved by cryopumping with internal cryopanel cooled by a Philips B-20 cryogenerator and six cryopumps. A few vacuum problems related to air and water leaks into the tank have been experienced recently. The troubleshooting techniques, details on the leak size determination and leak localization are described.

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Session Classification: SESSION 3

Track Classification: SESSION3