

## OLAV 1



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# The Recent Cyclotron Vacuum System Problems.

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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 m<sup>3</sup> and operates at  $2 \times 10^{-8}$  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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