

**A Second Harmonic in Ferrite Dominated Cavity of U-70, P.V. BELOV, O.P. LEBEDEV, IHEP, Protvino -**

The results of the experimental test of a modernized U-70 cavity are presented. The cavity was reconstructed from the first harmonic on second at the same geometry and type of a ferrite. The increase of tuning frequency is achieved by inclusion of additional loops in RF magnetic field. The inductance of cavity was reduced by about a factor 10 for the experimentally certain design of the loop. In our case the method is very inexpensive.