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PROPOSAL TO SEARCH FOR NEW PARTICLES

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SUMMARY

We propose to search for new particles at the newly built $p\bar{p}$ collider by detecting their single μ, μ pairs or multimuon decays, in particular $W^{\pm}$ and Z^{o} bosons.

The pair mass resolution is $\Delta m/m \approx 1\%$ at $m = 80$ GeV. To reach such an accuracy we want to use a solenoïdal magnet of 1.4 T field, implemented with high accuracy projection drift chambers.

A hadron absorber placed immediately around the beam pipe and chambers outside of the return yokes allow a powerful rejection against hadron background thus ensuring very clean events.

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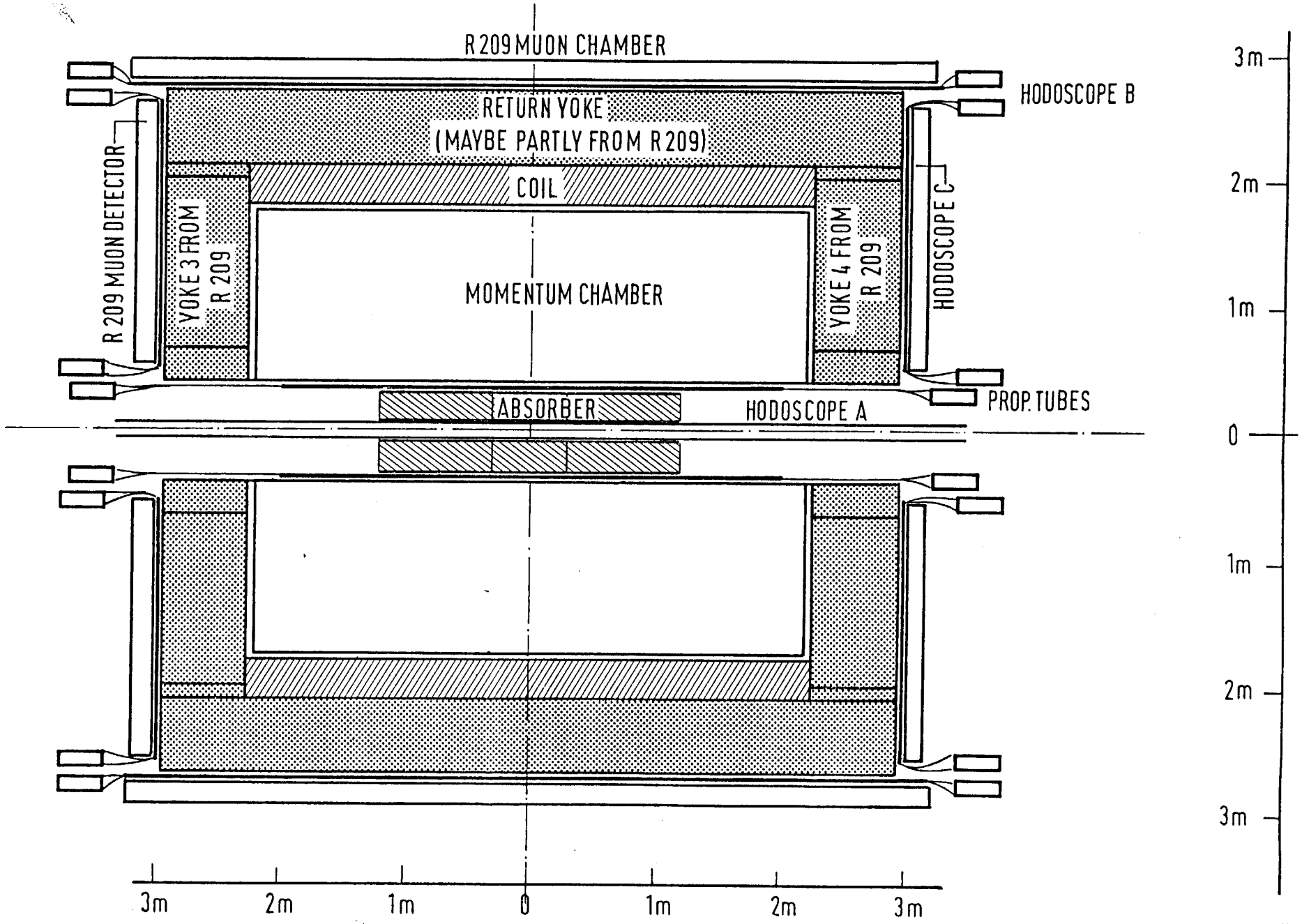

SI VIEW OF THE PROPOSED DETECTO