

HIGH-ENERGY DEUTERON MEASUREMENT WITH THE CAPRICE98 EXPERIMENT

E. Vannuccini for the WiZard/CAPRICE collaboration

INFN Section and Physics Department, University of Florence, Italy.

`vannucci@fi.infn.it`

The CAPRICE98 experiment was flown on 28-29 May 1998 from Fort Sumner, New Mexico, USA. The detector configuration included the NMSU-WiZard/CAPRICE magnetic spectrometer equipped with a gas RICH detector, a silicon-tungsten calorimeter and a time-of-flight system. By combining the RICH and the spectrometer information it was possible to separate ^2H from ^1H in the rigidity range from 30 to 40 GV. We describe the method of analysis and we report results on the ^2H abundance.