

**SPIN@U-70: An Experiment to Measure the Analyzing Power  $A_n$  in  
Very-high- $P_{\perp}^2$  p-p Elastic Scattering at 70 GeV\***

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The SPIN@U-70 experiment plans to measure the one-spin analyzing power  $A_n$  for proton-proton elastic scattering at large  $P_{\perp}^2$  values of 1 to 12 ( $\text{GeV}/c$ )<sup>2</sup> near 70 GeV. The Michigan frozen  $\text{NH}_3$  polarized proton target (Solid PPT) is planned to be installed in the Channel 8 extracted beam-line of the 70 GeV U-70 accelerator in IHEP, Protvino. The forward-scattered protons will be detected by small scintillation counters placed at about 8.5 m from the PPT, while the recoil-scattered protons will be detected by a 35-m long focusing magnetic spectrometer, with a 12 degree vertical bend, placed at 30 degrees to the beam. A tune-up run for testing the beam and the spectrometer, using a polyethylene target, was carried out in April 2002 at IHEP. The layout and the results of the test run will be presented.

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