

**Project of experiment for searching non-strange resonance from antidecuplet in the reactions  $p^- p - p^- p \pi$  и  $p^- p - KL$  at the ITEP accelerator.**  
(New PNPI-ITEP collaboration).

V.V.Sumachev

The searching of the narrow nonstrange resonance with spin  $\frac{1}{2}$ , isospin projection  $\frac{1}{2}$  is suggested through precise differential cross section measurements in the mentioned reactions. This state  $P_{11}$  was predicted near  $W_{cm}=1700$  MeV on the basis of a chiral soliton approach to hadron dynamics.

The current situation with known  $P_{11}(1710)$  resonance and results of the previous differential cross sections at  $p^- p - p^- p$  are discussed.

The necessary pion beam and experimental set up are reviewed.