

رتبه دوم خارجی  
Foreign Second Winner



**Project Title:**  
Structure of Proton

عنوان طرح:  
ساختار پروتون

**Researcher:**  
Fayyazuddin (Ph.D.)

محقق:  
دکتر فیاض الدین

**Country:**  
Pakistan

کشور:  
پاکستان

**University:**  
Quaid-I-Azam

دانشگاه:  
قائد اعظم

**Abstract:**

The simple picture of a proton having only nonstrange valence u and d quarks has been questioned.

Dr. Fayyazuddin has discussed that validity of a Chiral symmetry implies that strange quark content of a proton can not be zero.

Also it is suggested that measurement of Pauli form factor  $F_2^p$  and axial form factor  $G_z$  for z-boson exchange in parity-violating scattering of unpolarized electrons on polarized protons in conjunction with scattering of polarized electrons on unpolarized protons can give unambiguous information about strange content of proton. He has published 108 journal papers and co-authored 3 books.