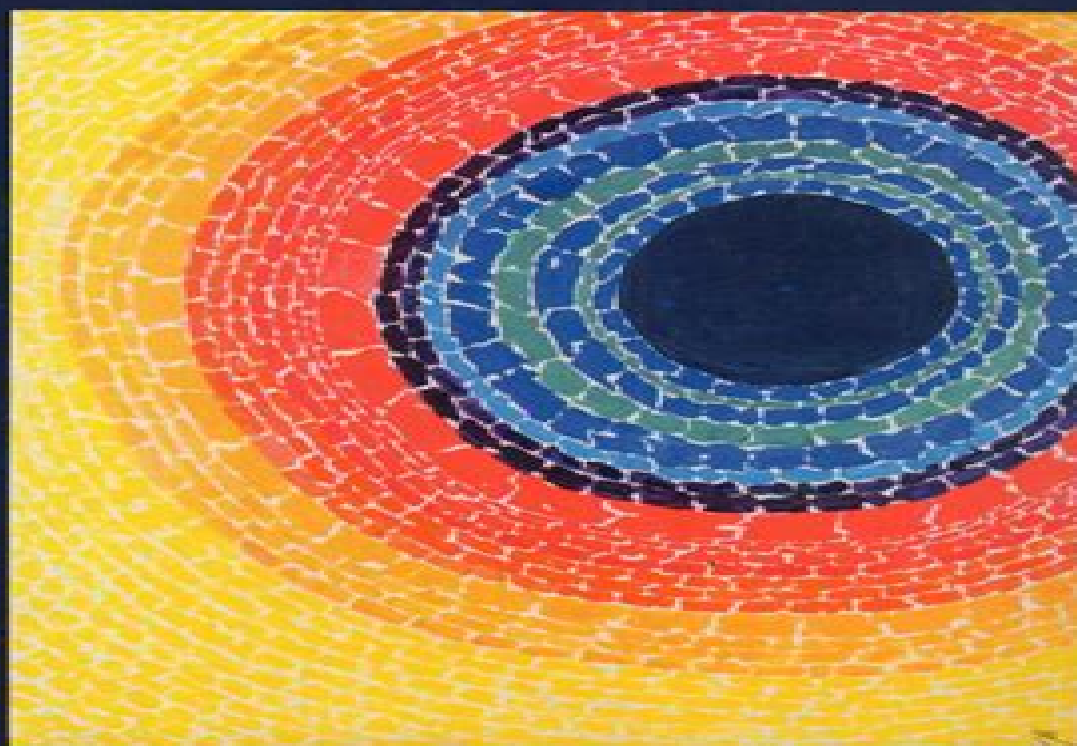


# ELEMENTARY PARTICLE PHYSICS

An Intuitive Introduction



ANDREW J. LARKOSKI

# Elementary Particle Physics Scat Volume 1

**Ensheng Dong**



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The associated production of a W boson and a single charm quark  $W c$  is the only process in proton proton collisions that directly probes the strange quark content of the proton In this thesis W charm production is measured in proton proton collisions at the LHC at 13 TeV as recorded by the Compact Muon Solenoid CMS experiment The analysis focuses on the identification of W bosons in their leptonic decay to a muon and a neutrino and charm quarks are tagged via the full reconstruction of D Mesons The measured cross sections of  $W c$  production are used in combination with other relevant CMS results and the most precise HERA DIS data in a QCD analysis to determine the strange quark content of the proton The resulting strange quark distribution and suppression with respect to the other light sea quarks are in good agreement with those obtained in neutrino scattering experiments and extend their kinematic reach  
**Bibliography of Scientific and Industrial Reports** ,1971      *New Technical Books* New York Public Library,1970      **U.S. Government Research Reports** ,1961      *Physics Briefs* ,1985  
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