

Abstract Submitted  
for the MAR10 Meeting of  
The American Physical Society

**Angular Momentum decomposition of nucleon** HIKMAT BC,  
MATTHIAS BURKARDT, New Mexico State University — We calculate the orbital angular momentum of the electron in the QED as well as that of the quark in scalar diquark model. We compare the orbital angular momentum obtained from the Jaffe- Manohar decomposition to that obtained from the Ji relation and estimate the importance of the vector potential in the definition of orbital angular momentum.

Hikmat BC  
New Mexico State University

Date submitted: 29 Nov 2009

Electronic form version 1.4