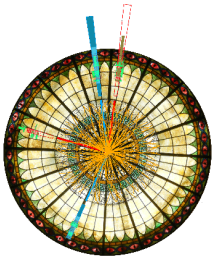
DIS 2015
XXIII International Workshop on
Deep-Inelastic Scattering and
Related Subjects

Dallas, Texas
April 27 – May 1, 2015



Contribution ID: **135** Type: **not specified**

Recent COMPASS results on transverse spin asymmetries in SIDIS.

Tuesday 28 April 2015 16:15 (25 minutes)

Recent results on the transverse spin azimuthal asymmetries in
semi-inclusive DIS reactions extracted by the COMPASS Collaboration
from the data collected with a transversely polarised proton target
are presented.
In particular, the interesting kinematical dependencies shown by the Collins
and Sivers asymmetries have been further investigated in a multi-dimensional analysis in x, Q^2, z and p_T.
Moreover, the similarity between the Collins asymmetries and the dihadron asymmetries recently observed
by COMPASS has been further investigated for an event sample
containing at least a pair of oppositely charged hadrons. From the
dependence of the asymmetries on the azimuthal angle between the two
detected hadrons a quantitative relation between the two asymmetries is
derived, confirming the original suggestion that a common physical
mechanism underlies the two mechanisms

Author: Mr SBRIZZAI, giulio (Trieste University and INFN)

Presenter: Mr SBRIZZAI, giulio (Trieste University and INFN)

Session Classification: WG6 Spin Physics

Track Classification: WG6 Spin Physics