High Energy Physics - Phenomenology

Topological Pions

Yang Bai, Adam Martin

(Submitted on 15 Mar 2010)

We study the collider signatures of new pions, composite particles which emerge from a TeV-scale, confining gauge theory with vector-like matter. Similar to the neutral pion in QCD, these new pions mainly decay into a pair of standard model (SM) gauge bosons via triangular anomaly diagrams. One of the new pions, which decays to a gluon plus a photon, has excellent discovery potential at the LHC.

Comments:5 pages, 5 figures.Subjects:High Energy Physics - Phenomenology (hep-ph); High Energy
Physics - Experiment (hep-ex)Report number:FERMILAB-PUB-10-003-TCite as:arXiv:1003.3006v1 [hep-ph]

Submission history

From: Yang Bai [view email] [v1] Mon, 15 Mar 2010 19:43:38 GMT (388kb)

Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.

All papers 🚽

Go!

Download:

- PostScript
- PDF
- Other formats

Current browse context: hep-ph < prev | next > new | recent | 1003

Change to browse by:

hep-ex

References & Citations

 SLAC-SPIRES HEP (refers to | cited by)

Bookmark(what is this?)
CiteULike logo
Connotea logo
BibSonomy logo
× Mendeley logo
Facebook logo
🗙 del.icio.us logo
EX Digg logo