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Research Areas

Experimental Methods of Particle and Nuclear Physics, Basic Particles and Areas

Academic Titles / Tasks

Assistant Professor, Hacettepe University, Mühendislik Fakültesi, Fizik Mühendisliği Bölümü, 2015 - Continues

Courses

Physics II, Undergraduate, 2020 - 2021

Computational Physics, Undergraduate, 2020 - 2021

Monte Carlo Simulation in High Energy Physics , Doctorate, 2020 - 2021

Data Analysis in High Energy Physics, Postgraduate, 2020 - 2021

Physics I, Undergraduate, 2020 - 2021

Nuclear Physics, Undergraduate, 2020 - 2021

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Electroweak stability and discovery luminosities for new physics**
Cankoçak K., Demir D., Karahan C., ŞEN S.
EUROPEAN PHYSICAL JOURNAL C, vol.80, no.12, 2020 (Journal Indexed in SCI)
- II. **Study of excited $\Lambda(0)(b)$ states decaying to $\Lambda(0)(b)\pi(+)\pi(-)$ in proton-proton collisions at root $s=13\text{TeV}$**
Sirunyan A. M. , Tumasyan A., Adam W., Ambrogio F., Bergauer T., Dragicevic M., Eroo J., Del Valle A. E. , Flechl M., Fruehwirth R., et al.
PHYSICS LETTERS B, vol.803, 2020 (Journal Indexed in SCI)
- III. **Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements**
Sirunyan A. M. , Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E. , et al.
EUROPEAN PHYSICAL JOURNAL C, vol.80, no.1, 2020 (Journal Indexed in SCI)
- IV. **LHC forward physics**
Akiba K., Akbiyik M., Albrow M., Arneodo M., Avati V., Baechler J., Baillie O. V. , Bartalini P., Bartels J., Baur S., et al.
JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, vol.43, no.11, 2016 (Journal Indexed in SCI)
- V. **Event generator tunes obtained from underlying event and multiparton scattering measurements**
Khachatryan V., Sirunyan A. M. , Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.

EUROPEAN PHYSICAL JOURNAL C, vol.76, no.3, 2016 (Journal Indexed in SCI)

- VI. **Large Rapidity Gap Method to Select Soft Diffraction Dissociation at the LHC**
Nurse E., ŞEN S.
ADVANCES IN HIGH ENERGY PHYSICS, vol.2016, 2016 (Journal Indexed in SCI)
- VII. **Production of leading charged particles and leading charged-particle jets at small transverse momenta in pp collisions at root s=8 TeV**
Khachatryan V., Sirunyan A. M. , Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Friedl M., Fruehwirth R., Ghete V. M. , et al.
PHYSICAL REVIEW D, vol.92, no.11, 2015 (Journal Indexed in SCI)
- VIII. **Measurement of diffractive dissociation cross sections in pp collisions at root s=7 TeV**
Khachatryan V., Sirunyan A. M. , Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., Fruehwirth R., et al.
PHYSICAL REVIEW D, vol.92, no.1, 2015 (Journal Indexed in SCI)
- IX. **Measurement of the inelastic proton-proton cross section at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M. , Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
PHYSICS LETTERS B, vol.722, pp.5-27, 2013 (Journal Indexed in SCI)
- X. **Tests of CMS hadron forward calorimeter upgrade readout box prototype**
Chatrchyan S., Khachatryan V., Sirunyan A. M. , Tumasyan A., Mossolov V., Shumeiko N., Cornelis T., Ochesanu S., Roland B., Staykova Z., et al.
JOURNAL OF INSTRUMENTATION, vol.7, 2012 (Journal Indexed in SCI)
- XI. **Forward energy flow, central charged-particle multiplicities, and pseudorapidity gaps in W and Z boson events from pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M. , Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.72, no.1, 2012 (Journal Indexed in SCI)
- XII. **Measurement of energy flow at large pseudorapidities in pp collisions at root s=0.9 and 7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M. , Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.11, 2011 (Journal Indexed in SCI)
- XIII. **Study of various photomultiplier tubes with muon beams and Cerenkov light produced in electron showers**
Chatrchyan S., Khachatryan V., Sirunyan A. M. , Mossolov V., Shumeiko N., De Wolf E. A. , Ochesanu S., Roland B., Van Haeveermaet H., Van Mechelen P., et al.
JOURNAL OF INSTRUMENTATION, vol.5, 2010 (Journal Indexed in SCI)

Supported Projects

BOZ M., ÇILDIRIÖĞLU H. Ö. , ŞEN S., GÜMÜŞ M. K. , YILDIZ B., AĞARAS M. N. , ÖZŞİMŞEK Ö. M. , Project Supported by Higher Education Institutions, CERN-LHC-CMS Projesi Çerçevesinde Hacettepe-CERN Bilimsel İşbirliğine İlk Adım, 2015 - 2018

Scientific Research / Working Group Memberships

CERN CMS Collaboration, The European Organization for Nuclear Research, Switzerland, <https://home.cern/about>, 2008 - Continues

Citations

Total Citations (WOS):708

h-index (WOS):8