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Education Information

Post Doctorate, Harvard University, Massachusetts General Hospital, Neuroprotection Research Laboratory, United States Of America 2011 - 2012

Doctorate, Hacettepe University, Nörolojik Bilimler ve Psikiyatri Enstitüsü, Turkey 2006 - 2011

Expertise In Medicine, Hacettepe University, Tıp Fakültesi, Nöroloji Anabilim Dalı, Turkey 1998 - 2005

Postgraduate, Hacettepe University, Tıp Fakültesi, Turkey 1991 - 1998

Foreign Languages

English, C1 Advanced

Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences, Internal Medicine Sciences, Neurology

Academic Titles / Tasks

Professor, Hacettepe University, Nörolojik Bilimler ve Psikiyatri Enstitüsü, Klinik Nöroloji ve Psikiyatri A.B.D., 2020 - Continues

Associate Professor, Hacettepe University, Nörolojik Bilimler ve Psikiyatri Enstitüsü, 2015 - 2020

Assistant Professor, Hacettepe University, Nörolojik Bilimler ve Psikiyatri Enstitüsü, Klinik Nörolojik Bilimler Ve Psikiyatri (Dr), 2013 - 2015

Lecturer, Hacettepe University, Sağlık Bilimleri Enstitüsü, Temel Nörolojik Bilimler (Dr), 2006 - 2011

Expert, Hacettepe University, Tıp Fakültesi, Dahili Tıp Bilimleri Bölümü, 1999 - 2005

Advising Theses

Karataş Kurşun H., Paranchymal neuroinflammation in familial hemiplegic migrane TYPE 1 transgenic mouse model after cortical spreading depression, Doctorate, A.DEHGHANI(Student), 2019

Karataş Kurşun H., Kortikal Yayılan Depolarizasyon ile Tetiklenen Nöro-parainflamasyonda Astroitik İnflamazom Yolağının Rolü, Doctorate, E.DERLE(Student), 2019

Karataş Kurşun H., Farede optogenetik yolla tetiklenen kortikal yayılan depresyonun subkortikal yayılım mekanizmalarının incelenmesi, Doctorate, B.UZAY(Student), 2019

Karataş Kurşun H., Özdemir Y., Hücre membranı yamayıcı molekülleri ile Panneksin1 megakanalı arasındaki olası ilişkisinin araştırılması, Doctorate, S.LÜLE(Student), 2015

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Insights from triggers and prodromal symptoms on how migraine attacks start: The threshold hypothesis**
Sebastianelli G., Atalar A. c., Cetta I., Farham F., Fitzek M., KARATAŞ KURŞUN H., Kholodova M., Kukumagi K., Montisano D. A., ONAN D., et al.
CEPHALALGIA, vol.44, no.10, 2024 (SCI-Expanded)
- II. **Observation of WW γ Production and Search for Hy Production in Proton-Proton Collisions at $\sqrt{s}=13$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
Physical Review Letters, vol.132, no.12, 2024 (SCI-Expanded)
- III. **New Structures in the Formula Presented Mass Spectrum in Proton-Proton Collisions at Formula Presented**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
Physical Review Letters, vol.132, no.11, 2024 (SCI-Expanded)
- IV. **Two-particle Bose-Einstein correlations and their Lévy parameters in PbPb collisions at Formula Presented TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
Physical Review C, vol.109, no.2, 2024 (SCI-Expanded)
- V. **Muon identification using multivariate techniques in the CMS experiment in proton-proton collisions at $\sqrt{S} = 13$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
Journal of Instrumentation, vol.19, no.2, 2024 (SCI-Expanded)
- VI. **Search for Inelastic Dark Matter in Events with Two Displaced Muons and Missing Transverse Momentum in Proton-Proton Collisions at $\sqrt{s}=13$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Frühwirth R., et al.
Physical Review Letters, vol.132, no.4, 2024 (SCI-Expanded)
- VII. **Evidence for the Higgs boson decay to a Z boson and a photon at the LHC**
Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Acharya B., et al.
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- VIII. **Measurement of the τ lepton polarization in Z boson decays in proton-proton collisions at (Formula presented.)**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
Journal of High Energy Physics, vol.2024, no.1, 2024 (SCI-Expanded)
- IX. **Luminosity determination using Z boson production at the CMS experiment**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Valle A. E. D., Hussain P., et al.
European Physical Journal C, vol.84, no.1, 2024 (SCI-Expanded)
- X. **Optogenetic cortical spreading depolarization induces headache-related behaviour and neuroinflammatory responses some prolonged in familial hemiplegic migraine type 1 mice**

Dehghani A., Schenke M., van Heiningen S. H., Karatas H., Tolner E. A., van den Maagdenberg A. M. J. M.
Journal of Headache and Pain, vol.24, no.1, 2023 (SCI-Expanded)

- XI. **Search for the lepton-flavor violating decay of the Higgs boson and additional Higgs bosons in the Formula Presented final state in proton-proton collisions at Formula Presented**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
Physical Review D, vol.108, no.7, 2023 (SCI-Expanded)
- XII. **A search for decays of the Higgs boson to invisible particles in events with a top-antitop quark pair or a vector boson in proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
European Physical Journal C, vol.83, no.10, 2023 (SCI-Expanded)
- XIII. **Measurement of the top quark mass using a profile likelihood approach with the lepton + jets final states in proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Hussain P., Jeitler M., et al.
European Physical Journal C, vol.83, no.10, 2023 (SCI-Expanded)
- XIV. **Measurement of the Dependence of the Hadron Production Fraction Ratios f_s/f_u and f_d/f_u on B Meson Kinematic Variables in Proton-Proton Collisions at Formula Presented**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
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- XV. **Observation of Same-Sign WW Production from Double Parton Scattering in Proton-Proton Collisions at Formula Presented**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
Physical Review Letters, vol.131, no.9, 2023 (SCI-Expanded)
- XVI. **Reconstruction of decays to merged photons using end-to-end deep learning with domain continuation in the CMS detector**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Frühwirth R., Jeitler M., et al.
Physical Review D, vol.108, no.5, 2023 (SCI-Expanded)
- XVII. **Observation of the Rare Decay of the η Meson to Four Muons**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
Physical Review Letters, vol.131, no.9, 2023 (SCI-Expanded)
- XVIII. **Search for Higgs Boson Decay to a Charm Quark-Antiquark Pair in Proton-Proton Collisions at Formula Presented**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
Physical Review Letters, vol.131, no.6, 2023 (SCI-Expanded)
- XIX. **Constraints on anomalous Higgs boson couplings to vector bosons and fermions from the production of Higgs bosons using the $\tau\tau$ final state**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., et al.
Physical Review D, vol.108, no.3, 2023 (SCI-Expanded)
- XX. **Measurements of jet multiplicity and jet transverse momentum in multijet events in proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Valle A. E. D., Frühwirth R., Jeitler M., et al.
European Physical Journal C, vol.83, no.8, 2023 (SCI-Expanded)

- XXI. **Azimuthal correlations in Z +jets events in proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Valle A. E. D., Frühwirth R., Jeitler M., et al.
European Physical Journal C, vol.83, no.8, 2023 (SCI-Expanded)
- XXII. **Search for Higgs Boson and Observation of Z Boson through Their Decay into a Charm Quark-Antiquark Pair in Boosted Topologies in Proton-Proton Collisions at Formula Presented**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Hussain P., Jeitler M., et al.
Physical Review Letters, vol.131, no.4, 2023 (SCI-Expanded)
- XXIII. **Search for Nonresonant Pair Production of Highly Energetic Higgs Bosons Decaying to Bottom Quarks**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
Physical Review Letters, vol.131, no.4, 2023 (SCI-Expanded)
- XXIV. **Precision measurement of the Z boson invisible width in pp collisions at $s=13\text{ TeV}$**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Frühwirth R., Jeitler M., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.842, 2023 (SCI-Expanded)
- XXV. **Search for nonresonant Higgs boson pair production in final state with two bottom quarks and two tau leptons in proton-proton collisions at $s=13\text{ TeV}$**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Hussain P., Jeitler M., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.842, 2023 (SCI-Expanded)
- XXVI. **Search for Higgs boson decays into Z and J/ψ and for Higgs and Z boson decays into J/ψ or Y pairs in pp collisions at $s=13\text{ TeV}$**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.842, 2023 (SCI-Expanded)
- XXVII. **Measurement of the $B_s \rightarrow \mu^+\mu^-$ decay properties and search for the $B^0 \rightarrow \mu^+\mu^-$ decay in proton-proton collisions at $s=13\text{TeV}$**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Hussain P., Jeitler M., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.842, 2023 (SCI-Expanded)
- XXVIII. **Search for electroweak production of charginos and neutralinos at $s=13\text{TeV}$ in final states containing hadronic decays of WW, WZ, or WH and missing transverse momentum**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.842, 2023 (SCI-Expanded)
- XXIX. **Probing Heavy Majorana Neutrinos and the Weinberg Operator through Vector Boson Fusion Processes in Proton-Proton Collisions at Formula Presented**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
Physical Review Letters, vol.131, no.1, 2023 (SCI-Expanded)
- XXX. **CMS pythia 8 colour reconnection tunes based on underlying-event data**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Valle A. E. D., Frühwirth R., Jeitler M., et al.
European Physical Journal C, vol.83, no.7, 2023 (SCI-Expanded)
- XXXI. **Search for narrow resonances in the Formula Presented-tagged dijet mass spectrum in proton-proton collisions at Formula Presented**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Frühwirth R., Jeitler M., et al.

- Physical Review D, vol.108, no.1, 2023 (SCI-Expanded)
- XXXII. **Search for CP violation in $t\bar{t}H$ and tH production in multilepton channels in proton-proton collisions at $\sqrt{s} = 13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
Journal of High Energy Physics, vol.2023, no.7, 2023 (SCI-Expanded)
- XXXIII. **Search for direct pair production of supersymmetric partners of τ leptons in the final state with two hadronically decaying τ leptons and missing transverse momentum in proton-proton collisions at Formula Presented**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., et al.
Physical Review D, vol.108, no.1, 2023 (SCI-Expanded)
- XXXIV. **Measurement of the mass dependence of the transverse momentum of lepton pairs in Drell-Yan production in proton-proton collisions at $\sqrt{s}=13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Dragicevic M., Valle A. E. D., Frühwirth R., Jeitler M., Krammer N., et al.
European Physical Journal C, vol.83, no.7, 2023 (SCI-Expanded)
- XXXV. **Observation of electroweak $W+W-$ pair production in association with two jets in proton-proton collisions at $s=13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Frühwirth R., Jeitler M., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.841, 2023 (SCI-Expanded)
- XXXVI. **Search for nonresonant Higgs boson pair production in the four leptons plus twob jets final state in proton-proton collisions at $\sqrt{s} = 13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
Journal of High Energy Physics, vol.2023, no.6, 2023 (SCI-Expanded)
- XXXVII. **Search for heavy resonances and quantum black holes in $e\mu$, $e\tau$, and $\mu\tau$ final states in proton-proton collisions at $\sqrt{s} = 13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., et al.
Journal of High Energy Physics, vol.2023, no.5, 2023 (SCI-Expanded)
- XXXVIII. **Search for CP violation using (Formula presented.) events in the lepton+jets channel in pp collisions at $\sqrt{s} = 13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., et al.
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- XXXIX. **Search for top squarks in the four-body decay mode with single lepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
Journal of High Energy Physics, vol.2023, no.6, 2023 (SCI-Expanded)
- XL. **Search for long-lived particles decaying to a pair of muons in proton-proton collisions at $\sqrt{s} = 13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
Journal of High Energy Physics, vol.2023, no.5, 2023 (SCI-Expanded)
- XLI. **Observation of triple J/ψ meson production in proton-proton collisions**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Frühwirth R., Jeitler M., et al.
Nature Physics, vol.19, no.3, pp.338-350, 2023 (SCI-Expanded)

- XLII. **Comparison of Optic Nerve Sheath Diameters Measured by Optic Ultrasonography Before and After Lumbar Puncture in Idiopathic Intracranial Hypertension Patients**
Bozdoğan Z., Şenel E., Özmuk Ö., Karataş H., Kurşun O.
Noropsikiyatri Arsivi, vol.60, no.2, pp.117-123, 2023 (SCI-Expanded)
- XLIII. **Editorial: Targeting oxidative stress for protecting neurons against injury**
Karatas H.
Frontiers in Cellular Neuroscience, vol.17, 2023 (SCI-Expanded)
- XLIV. **Cortical spreading depression can be triggered by sensory stimulation in primed wild type mouse brain: a mechanistic insight to migraine aura generation**
HANALIOĞLU Ş., TAŞKIRAN SAĞ A., KARATAŞ KURŞUN H., Donmez-Demir B., YILMAZ ÖZCAN S., EREN KOÇAK E., Gursoy-Ozdemir Y., DALKARA T.
JOURNAL OF HEADACHE AND PAIN, vol.23, no.1, 2022 (SCI-Expanded)
- XLV. **Measurement of the Higgs boson width and evidence of its off-shell contributions to ZZ production**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Frühwirth R., Jeitler M., et al.
Nature Physics, vol.18, no.11, pp.1329-1334, 2022 (SCI-Expanded)
- XLVI. **Search for a W' boson decaying to a vector-like quark and a top or bottom quark in the all-jets final state at $\sqrt{s} = 13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., Krammer N., et al.
Journal of High Energy Physics, vol.2022, no.9, 2022 (SCI-Expanded)
- XLVII. **Search for Higgs Boson Pair Production in the Four b Quark Final State in Proton-Proton Collisions at $s = 13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Frühwirth R., Jeitler M., et al.
Physical Review Letters, vol.129, no.8, 2022 (SCI-Expanded)
- XLVIII. **Measurement of the Drell-Yan forward-backward asymmetry at high dilepton masses in proton-proton collisions at $\sqrt{s} = 13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., et al.
Journal of High Energy Physics, vol.2022, no.8, 2022 (SCI-Expanded)
- XLIX. **Search for Resonances Decaying to Three W Bosons in Proton-Proton Collisions at $s = 13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Dragicevic M., Del Valle A. E., Frühwirth R., Jeitler M., Krammer N., et al.
Physical Review Letters, vol.129, no.2, 2022 (SCI-Expanded)
- L. **Search for new physics in the lepton plus missing transverse momentum final state in proton-proton collisions at $\sqrt{s} = 13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., Krammer N., et al.
Journal of High Energy Physics, vol.2022, no.7, 2022 (SCI-Expanded)
- LI. **Search for resonances decaying to three W bosons in the hadronic final state in proton-proton collisions at $s = 13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Frühwirth R., Jeitler M., et al.
Physical Review D, vol.106, no.1, 2022 (SCI-Expanded)
- LII. **Measurement of the inclusive and differential WZ production cross sections, polarization angles, and triple gauge couplings in pp collisions at $\sqrt{s} = 13$ TeV**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., Krammer N., et al.
Journal of High Energy Physics, vol.2022, no.7, 2022 (SCI-Expanded)
- LIII. **Search for long-lived heavy neutral leptons with displaced vertices in proton-proton collisions at \sqrt{s}**

=13 TeV

Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., et al.

Journal of High Energy Physics, vol.2022, no.7, 2022 (SCI-Expanded)

LIV. Identification of hadronic tau lepton decays using a deep neural network

Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., Krammer N., et al.

Journal of Instrumentation, vol.17, no.7, 2022 (SCI-Expanded)

LV. Search for heavy resonances decaying to $Z(\nu\nu)\gamma(q\bar{q})$ in proton-proton collisions at $\sqrt{s}=13$ TeV

Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., Krammer N., et al.

Physical Review D, vol.106, no.1, 2022 (SCI-Expanded)

LVI. Search for charged-lepton flavor violation in top quark production and decay in pp collisions at $\sqrt{s}=13$ TeV

Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., Krammer N., et al.

Journal of High Energy Physics, vol.2022, no.6, 2022 (SCI-Expanded)

LVII. Analysis of the CP structure of the Yukawa coupling between the Higgs boson and τ leptons in proton-proton collisions at $\sqrt{s}=13$ TeV

Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., Krammer N., et al.

Journal of High Energy Physics, vol.2022, no.6, 2022 (SCI-Expanded)

LVIII. Search for resonant production of strongly coupled dark matter in proton-proton collisions at 13 TeV

Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., et al.

Journal of High Energy Physics, vol.2022, no.6, 2022 (SCI-Expanded)

LIX. Search for higgsinos decaying to two Higgs bosons and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV

Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., et al.

Journal of High Energy Physics, vol.2022, no.5, 2022 (SCI-Expanded)

LX. Observation of $B^0 \rightarrow \psi(2S)K^0S\pi^+\pi^-$ and $B^0S \rightarrow \psi(2S)K^0S$ decays

Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Valle A. E. D., Frühwirth R., Jeitler M., et al.

European Physical Journal C, vol.82, no.5, 2022 (SCI-Expanded)

LXI. Measurement of the inclusive and differential $t\bar{t}\gamma$ cross sections in the dilepton channel and effective field theory interpretation in proton-proton collisions at $\sqrt{s}=13$ TeV

Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., et al.

Journal of High Energy Physics, vol.2022, no.5, 2022 (SCI-Expanded)

LXII. Search for heavy resonances decaying to a pair of Lorentz-boosted Higgs bosons in final states with leptons and a bottom quark pair at $\sqrt{s}=13$ TeV

Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Frühwirth R., Jeitler M., et al.

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LXIII. Search for invisible decays of the Higgs boson produced via vector boson fusion in proton-proton collisions at $\sqrt{s}=13$ TeV

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