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Eğitim Bilgileri

Doktora, Çukurova Üniversitesi, Fen Bilimleri Enstitüsü, Fizik, Türkiye 1986 - 1992

Yüksek Lisans, Çukurova Üniversitesi, Fen Bilimleri Enstitüsü, Türkiye 1983 - 1986

Lisans, Çukurova Üniversitesi, Fen-Edebiyat Fakültesi, Fizik, Türkiye 1979 - 1983

Yabancı Diller

İngilizce, B2 Orta Üstü

Araştırma Alanları

Fizik, Atom ve Molekül Fiziği, Nükleer Fizik, Temel Parçacıklar ve Alanlar , Temel Bilimler

Akademik Unvanlar / Görevler

Prof. Dr., Çukurova Üniversitesi, Fen-Edebiyat Fakültesi, Fizik, 2001 - Devam Ediyor

Doç. Dr., Çukurova Üniversitesi, Fen-Edebiyat Fakültesi, Fizik, 1995 - 2001

Yrd. Doç. Dr., Çukurova Üniversitesi, Fen-Edebiyat Fakültesi, Fizik, 1993 - 1995

Araştırma Görevlisi, Çukurova Üniversitesi, Fen-Edebiyat Fakültesi, Fizik, 1985 - 1993

Akademik İdari Deneyim

Çukurova Üniversitesi, 2016 - Devam Ediyor

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Çukurova Üniversitesi, Fen Edebiyat Fakültesi , Fizik, 2002 - 2011

Yönetilen Tezler

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POLATÖZ A., On the Testing of CMS Tracker Outer Barrel Silicon Microstrip Dedector Modules, Doktora, K.Söğüt(Öğrenci), 2005

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SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Measurement of the polarizations of prompt and non-prompt [Formula presented] and $\psi(2S)$ mesons produced in pp collisions at s \sqrt{s} =13TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.858, 2024 (SCI-Expanded)
- II. **Search for the Z Boson Decay to $\tau\tau\mu\mu$ in Proton-Proton Collisions at \sqrt{s} =13 TeV**
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- III. **Observation of Enhanced Long-Range Elliptic Anisotropies Inside High-Multiplicity Jets in pp Collisions at \sqrt{s} =13 TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physical review letters, cilt.133, sa.14, ss.142301, 2024 (SCI-Expanded)
- IV. **Searches for violation of Lorentz invariance in top quark pair production using dilepton events in 13 TeV proton-proton collisions**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
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- V. **KS0 and $\Lambda(\Lambda^-)$ two-particle femtoscopic correlations in PbPb collisions at s \sqrt{s} =5.02TeV**
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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- VI. **Observation of the $\Lambda b0 \rightarrow J/\psi \Xi^- K^+$ decay**
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, cilt.84, sa.10, 2024 (SCI-Expanded)
- VII. **Search for Higgs boson pair production with one associated vector boson in proton-proton collisions at $s = 13$ 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.
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- VIII. **Measurement of the production cross section of a Higgs boson with large transverse momentum in its decays to a pair of τ leptons in proton-proton collisions at $s=13$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
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- IX. **Performance of the CMS electromagnetic calorimeter in pp 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, cilt.19, sa.9, 2024 (SCI-Expanded)
- X. **Performance of CMS muon reconstruction from proton-proton to heavy ion collisions**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
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- XI. **Search for a resonance decaying to a W boson and a photon in proton-proton collisions at $s = 13$ TeV using leptonic W boson decays**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
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- XII. **Measurement of Energy Correlators inside Jets and Determination of the Strong Coupling Formula Presented**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physical Review Letters, cilt.133, sa.7, 2024 (SCI-Expanded)
- XIII. **Constraints on anomalous Higgs boson couplings from its production and decay using the WW channel in proton-proton collisions at $s=13$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
European Physical Journal C, cilt.84, sa.8, 2024 (SCI-Expanded)
- XIV. **Search for new physics in high-mass diphoton events from proton-proton collisions at $s = 13$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
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- XV. **Search for long-lived particles decaying in the CMS muon detectors in proton-proton collisions at Formula Presented**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physical Review D, cilt.110, sa.3, 2024 (SCI-Expanded)
- XVI. **Measurement of multijet azimuthal correlations and determination of the strong coupling in proton-proton collisions at $s=13$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.

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- XVII. Evidence for tWZ production in proton-proton collisions at $s=13$ TeV in multilepton final states**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
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- XVIII. Observation of the Formula Presented Meson and Suppression of Formula Presented States in Pb-Pb 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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- XIX. Search for Narrow Trijet Resonances 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, cilt.133, sa.1, 2024 (SCI-Expanded)
- XX. Search for a scalar or pseudoscalar dilepton resonance produced in association with a massive vector boson or top quark-antiquark fiffi pair in multilepton events at $ps=13$ 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.
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- XXI. Search for high-mass exclusive diphoton production with tagged protons 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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- XXII. Search for long-lived heavy neutral leptons decaying in the CMS muon detectors in proton-proton collisions at Formula Presented**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physical Review D, cilt.110, sa.1, 2024 (SCI-Expanded)
- XXIII. Extracting the speed of sound in quark-gluon plasma with ultrarelativistic lead-lead collisions at the LHC**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Reports on Progress in Physics, cilt.87, sa.7, 2024 (SCI-Expanded)
- XXIV. Observation of the Formula Presented decay and studies of the Formula Presented baryon in proton-proton collisions at Formula Presented**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
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- XXV. Search for ZZ and ZH production in the $bb\bar{b}\bar{b}$ final state using proton-proton collisions at $s=13$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
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- XXVI. Search for dark QCD with emerging jets in proton-proton collisions at $s = 13$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Journal of High Energy Physics, cilt.2024, sa.7, 2024 (SCI-Expanded)
- XXVII. Combination of Measurements of the Top Quark Mass from Data Collected by the ATLAS and CMS Experiments at $\sqrt{s}=7$ and 8 TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.

- Physical Review Letters, cilt.132, sa.26, 2024 (SCI-Expanded)
- XXVIII. **Search for Baryon Number Violation in Top Quark Production and Decay Using Proton-Proton Collisions at Formula Presented**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physical Review Letters, cilt.132, sa.24, 2024 (SCI-Expanded)
- XXIX. **Search for pair production of scalar and vector leptoquarks decaying to muons and bottom quarks in proton-proton collisions at Formula Presented**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physical Review D, cilt.109, sa.11, 2024 (SCI-Expanded)
- XXX. **Search for stealth supersymmetry in final states with two photons, jets, and low missing transverse momentum in proton-proton collisions at Formula Presented**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Hussain P., et al.
Physical Review D, cilt.109, sa.11, 2024 (SCI-Expanded)
- XXXI. **Observation of the Formula Presented decay in proton-proton collisions at Formula Presented**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
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- XXXII. **Search for the lepton flavor violating $\tau \rightarrow 3\mu$ decay in proton-proton collisions at $s=13\text{TeV}$**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.853, 2024 (SCI-Expanded)
- XXXIII. **Search for long-lived particles using displaced vertices and missing transverse momentum in proton-proton collisions at Formula Presented**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physical Review D, cilt.109, sa.11, 2024 (SCI-Expanded)
- XXXIV. **Combined search for electroweak production of winos, binos, higgsinos, and sleptons 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.
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- XXXV. **Nonresonant central exclusive production of charged-hadron pairs in proton-proton collisions at Formula Presented**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physical Review D, cilt.109, sa.11, 2024 (SCI-Expanded)
- XXXVI. **Search for exotic decays of the Higgs boson to a pair of pseudoscalars in the $\mu\mu b\bar{b}$ and $\tau\tau b\bar{b}$ final states**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Hussain P., et al.
European Physical Journal C, cilt.84, sa.5, 2024 (SCI-Expanded)
- XXXVII. **Search for long-lived particles decaying to final states with a pair of muons in proton-proton collisions at $s = 13.6 \text{ TeV}$**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Journal of High Energy Physics, cilt.2024, sa.5, 2024 (SCI-Expanded)
- XXXVIII. **Search for an exotic decay of the Higgs boson into a Z boson and a pseudoscalar particle in proton-proton collisions at $s=13\text{TeV}$**

- Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.852, 2024 (SCI-Expanded)
- XXXIX. **Development of the CMS detector for the CERN LHC Run 3**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Hussain P., Jeitler M., et al.
Journal of Instrumentation, cilt.19, sa.5, 2024 (SCI-Expanded)
- XL. **Measurement of simplified template cross sections of the Higgs boson produced in association with w or z bosons in the Formula Presented decay channel 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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- XLI. **Search for a new resonance decaying into two spin-0 bosons in a final state with two photons and two bottom quarks 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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- XLII. **Search for flavor changing neutral current interactions of the top quark in final states with a photon and additional jets 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, cilt.109, sa.7, 2024 (SCI-Expanded)
- XLIII. **Search for supersymmetry in final states with disappearing tracks 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.
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- XLIV. **Observation of $WW\gamma$ Production and Search for $H\gamma$ 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, cilt.132, sa.12, 2024 (SCI-Expanded)
- XLV. **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.
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- XLVI. **Study of azimuthal anisotropy of $\Upsilon(1S)$ mesons in pPb collisions at $s_{NN} = 8.16$ 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.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.850, 2024 (SCI-Expanded)
- XLVII. **Search for new Higgs bosons via same-sign top quark pair production in association with a jet in proton-proton collisions at $s=13$ TeV**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.850, 2024 (SCI-Expanded)
- XLVIII. **Search for dark matter particles in $W+W^-$ events with transverse momentum imbalance in proton-proton collisions at $s = 13$ 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.

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- XLIX. **Measurements of azimuthal anisotropy of nonprompt D0 mesons in PbPb collisions at $\sqrt{s_{NN}}=5.02\text{TeV}$**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
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- L. **Search for long-lived heavy neutral leptons with lepton flavour conserving or violating decays to a jet and a charged lepton**
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- L.I. **Search for Scalar Leptoquarks Produced via τ -Lepton-Quark Scattering in pp Collisions at $\sqrt{s}=13\text{ TeV}$**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
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- L.II. **Higher-order moments of the elliptic flow distribution in PbPb collisions at $\sqrt{s_{NN}} = 5.02\text{ TeV}$**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
Journal of High Energy Physics, cilt.2024, sa.2, 2024 (SCI-Expanded)
- L.III. **Two-particle Bose-Einstein correlations and their Lévy parameters in PbPb collisions at $\sqrt{s_{NN}} = 5.02\text{ TeV}$**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.
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- L.IV. **Muon identification using multivariate techniques in the CMS experiment in proton-proton collisions at $\sqrt{s} = 13\text{ TeV}$**
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- L.V. **Search for Inelastic Dark Matter in Events with Two Displaced Muons and Missing Transverse Momentum in Proton-Proton Collisions at $\sqrt{s}=13\text{ TeV}$**
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, cilt.132, sa.4, 2024 (SCI-Expanded)
- L.VI. **Evidence for the Higgs Boson Decay to a Z Boson and a Photon at the LHC**
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- CXXXVIII. **Measurement of masses in the $t(\bar{t})$ system by kinematic endpoints in pp collisions at root s=7 TeV**
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- CXXXIX. **search for new physics in events with same-sign dileptons and b jets in pp collisions at root s = 8 TeV**
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- CXXX. **Search for narrow resonances using the dijet mass spectrum in pp collisions at root s=8 TeV**
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- CXXXI. **Measurements of differential jet cross sections in proton-proton collisions at root s=7 TeV with the CMS detector**
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- CXXXIII. **Forward-backward asymmetry of Drell-Yan lepton pairs in pp collisions at root s=7 TeV**
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- CXXXIV. **Search for long-lived particles in events with photons and missing energy in proton-proton collisions at root s=7 TeV**
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- CXXXV. **Search for supersymmetry in pp collisions at root s=7 TeV in events with a single lepton, jets, and missing transverse momentum**
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- CXXXVI. **Measurement of associated production of vector bosons and top quark-antiquark pairs in pp collisions at root s=7 TeV**
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- CXXXIX. **Search for supersymmetry in events with photons and low missing transverse energy in pp collisions at root s=7 TeV**
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- CXLV. **Search for a W ' boson decaying to a bottom quark and a top quark in pp collisions at root s=7 TeV**
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- CXLVI. **Search for a narrow, spin-2 resonance decaying to a pair of Z bosons in the q(q)over-barl(+)l(-) final state**
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- CXLVII. **Observation of long-range, near-side angular correlations in pPb collisions at the LHC**
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- CXLVIII. **Search for flavor changing neutral currents in top quark decays in pp collisions at 7 TeV**
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- CXLIX. **Studies of jet quenching using isolated-photon plus jet correlations in PbPb and pp collisions at root s(NN)=2.76 TeV**
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- CLI. **Measurement of the elliptic anisotropy of charged particles produced in PbPb collisions at root s(NN)=2.76 TeV**
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- CLII. **Search for new physics in events with opposite-sign leptons, jets, and missing transverse energy in pp collisions at root s=7 TeV**
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- CLIII. **Search for heavy lepton partners of neutrinos in proton-proton collisions in the context of the type III seesaw mechanism**
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- CLIV. **Search for pair produced fourth-generation up-type quarks in pp collisions at root s=7 TeV with a lepton in the final state**
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- CLV. **Search for three-jet resonances in pp collisions at root s=7 TeV**
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- CLVIII. **Measurement of the Pseudorapidity and Centrality Dependence of the Transverse Energy Density in Pb-Pb Collisions at root s(NN)=2.76 TeV**
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- CLIX. **Search for a W ' or Techni-rho Decaying into WZ in pp Collisions at root s=7 TeV**
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- CLX. **Search for New Physics in the Multijet and Missing Transverse Momentum Final State in Proton-Proton Collisions at root s=7 TeV**
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- CLXI. **Search for heavy Majorana neutrinos in $\mu(+/-)\mu(+/-)$ + jets and $e(+/-)e(+/-)$ + jets events in pp collisions 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.
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- CLXII. **Measurement of the top-quark mass in $t(\bar{t})$ over-bar events with dilepton final states in pp collisions at root $s=7$ TeV**
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- CLXIII. **Inclusive and differential measurements of the $t(\bar{t})$ over-bar charge asymmetry in proton-proton collisions root $s=7$ TeV**
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- CLXIV. **Search for supersymmetry in events with b-quark jets and missing transverse energy in pp collisions at 7 TeV**
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- CLXV. **Performance of CMS muon reconstruction in pp collision events at root $s=7$ TeV**
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- CLXVI. **Study of the inclusive production of charged pions, kaons, and protons in pp collisions at root $s=0.9, 2.76,$ and 7 TeV**
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- CLXVII. **Search for physics beyond the standard model in events with a Z boson, jets, and missing transverse energy in pp collisions at root $s=7$ TeV**
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- CLXVIII. **Search for a Light Pseudoscalar Higgs Boson in the Dimuon Decay Channel in pp Collisions at root $s=7$ TeV**
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- CLXIX. **Observation of a new boson at a mass of 125 GeV with the CMS experiment at the LHC**
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- CLXX. **Measurement of the Electron Charge Asymmetry in Inclusive W Production in pp Collisions at root $s=7$ TeV**
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- CLXXI. **Search for pair production of first- and second-generation scalar leptoquarks in pp collisions at**

root s=7 TeV

Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroee J., Fabjan C., et al.

PHYSICAL REVIEW D, cilt.86, sa.5, 2012 (SCI-Expanded)

CLXXII. Measurement of the underlying event in the Drell-Yan process in proton-proton collisions at root s=7 TeV

Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C., Friedl M., et al.

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CLXXIII. Search for heavy, top-like quark pair production in the dilepton final state in pp collisions at root s=7 TeV

Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C., Friedl M., et al.

PHYSICS LETTERS B, cilt.716, sa.1, ss.103-121, 2012 (SCI-Expanded)

CLXXIV. Search for high-mass resonances decaying into tau-lepton pairs in pp collisions at root s=7 TeV

Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C., Friedl M., et al.

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CLXXV. Measurement of the Lambda(b) cross section and the (Lambda)over-bar(b) to Lambda(b) ratio with J/psi Lambda decays in pp collisions at root s=7 TeV CMS Collaboration

Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C., Friedl M., et al.

PHYSICS LETTERS B, cilt.714, ss.136-157, 2012 (SCI-Expanded)

CLXXVI. Search for narrow resonances in dilepton mass spectra in pp collisions at root s=7 TeV CMS Collaboration

Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C., Friedl M., et al.

PHYSICS LETTERS B, cilt.714, ss.158-179, 2012 (SCI-Expanded)

CLXXVII. Search for New Physics with Same-Sign Isolated Dilepton Events with Jets and Missing Transverse Energy

Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C., Friedl M., et al.

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CLXXVIII. Study of W boson production in PbPb and pp collisions at root s(NN)=2.76 TeV

Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C., Friedl M., et al.

PHYSICS LETTERS B, cilt.715, ss.66-87, 2012 (SCI-Expanded)

CLXXIX. Azimuthal Anisotropy of Charged Particles at High Transverse Momenta in Pb-Pb Collisions at root S-NN=2.76 TeV

Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C., Friedl M., et al.

PHYSICAL REVIEW LETTERS, cilt.109, sa.2, 2012 (SCI-Expanded)

CLXXX. Search for heavy long-lived charged particles in pp collisions at root s=7 TeV

Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C., Friedl M., et al.

PHYSICS LETTERS B, cilt.713, ss.408-433, 2012 (SCI-Expanded)

CLXXXI. Search for Dark Matter and Large Extra Dimensions in pp Collisions Yielding a Photon and Missing Transverse Energy

Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C., Friedl M., et al.

PHYSICAL REVIEW LETTERS, cilt.108, sa.26, 2012 (SCI-Expanded)

- CLXXXII. **Measurement of the $t\bar{t}$ production cross section in pp collisions at root $s=7$ TeV in dilepton final states containing a tau**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroë J., Fabjan C., Friedl M., et al.
 PHYSICAL REVIEW D, cilt.85, sa.11, 2012 (SCI-Expanded)
- CLXXXIII. **Measurement of the mass difference between top and antitop quarks**
 Chatrchyan S., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., et al.
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- CLXXXIV. **Search for neutral Higgs bosons decaying to tau pairs in pp collisions at root $s=7$ TeV**
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- CLXXXV. **Observation of a New $\Xi(b)$ Baryon**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroë J., Fabjan C., Friedl M., et al.
 PHYSICAL REVIEW LETTERS, cilt.108, sa.25, 2012 (SCI-Expanded)
- CLXXXVI. **Inclusive b-jet production in pp collisions at $\sqrt{s} = 7$ TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., et al.
 Journal of High Energy Physics, cilt.2012, sa.4, 2012 (SCI-Expanded)
- CLXXXVII. **Search for large extra dimensions in dimuon and dielectron events in pp collisions at root $s=7$ TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroë J., Fabjan C., Friedl M., et al.
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- :LXXXVIII. **Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at root $s(NN)=2.76$ TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroë J., Fabjan C., Friedl M., et al.
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- CLXXXIX. **Measurement of isolated photon production in pp and PbPb collisions at root $s(NN)=2.76$ TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroë J., Fabjan C., Friedl M., et al.
 PHYSICS LETTERS B, cilt.710, sa.2, ss.256-277, 2012 (SCI-Expanded)
- CXC. **Search for a Higgs boson in the decay channel $H \rightarrow ZZ^{(*)} \rightarrow q(q)\bar{l}l$ in pp collisions at root $s=7$ TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., et al.
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- CXCI. **Search for the standard model Higgs boson decaying into two photons in pp collisions at root $s=7$ TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroë J., Fabjan C., Friedl M., et al.
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- CXCII. **Search for the standard model Higgs boson decaying to bottom quarks in pp collisions at root $s=7$ TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroë J., Fabjan C., Friedl M., et al.
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- CXCIII. **Search for microscopic black holes in pp collisions at root $s=7$ TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C.,

- Friedl M., et al.
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- CXCIV. **Search for the Standard Model Higgs Boson in the Decay Channel $H \rightarrow ZZ \rightarrow 4l$ in pp Collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
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- CXCV. **Search for Signatures of Extra Dimensions in the Diphoton Mass Spectrum at the Large Hadron Collider**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW LETTERS, cilt.108, sa.11, 2012 (SCI-Expanded)
- CXCVI. **Measurement of the charge asymmetry in top-quark pair production in proton-proton collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.
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