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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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## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Measurement of inclusive and differential cross sections for  $W+W-$  production in proton-proton collisions at  $\sqrt{s}=13.6$  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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- II. **Search for a standard model-like Higgs boson in the mass range between 70 and 110 GeV in the diphoton final state in proton-proton collisions at  $\sqrt{s}=13$ TeV**  
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- III. **Search for bottom quark associated production of the standard model Higgs boson in final states with leptons in proton-proton collisions at  $\sqrt{s}=13$ TeV**  
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- IV. **Study of WH production through vector boson scattering and extraction of the relative sign of the W and Z couplings to the Higgs boson in proton-proton collisions at  $\sqrt{s}=13$ TeV**  
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- V. **Searches for Pair-Produced Multijet Resonances Using Data Scouting in Proton-Proton Collisions at  $\sqrt{s}=13$  TeV**

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- VI. **Search for Soft Unclustered Energy Patterns in Proton-Proton Collisions at 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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- VII. **Measurement of the polarizations of prompt and non-prompt [Formula presented] and  $\psi(2S)$  mesons produced in pp 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.  
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- VIII. **Observation of double Formula Presented meson production in Formula Presented 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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- IX. **Performance of the CMS high-level trigger during LHC Run 2**  
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Benato L., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., et al.  
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- X. **Search for the Z Boson Decay to  $\tau\tau\mu\mu$  in Proton-Proton Collisions at  $\sqrt{s}=13\text{ TeV}$**   
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- XI. **Observation of Enhanced Long-Range Elliptic Anisotropies Inside High-Multiplicity Jets 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., Hussain P., Jeitler M., et al.  
Physical review letters, cilt.133, sa.14, ss.142301, 2024 (SCI-Expanded)
- XII. **Measurement of differential ZZ + jets production cross sections in pp 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.  
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- XIII. **Search for Higgs boson pair production with one associated vector boson in proton-proton collisions at  $s = 13\text{ TeV}$**   
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- XIV. **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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- XV. **Search for production of a single vectorlike quark decaying to tH or tZ in the all-hadronic final state in pp 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.7, 2024 (SCI-Expanded)
- XVI. **Measurement of the production cross section of a Higgs boson with large transverse momentum in its decays to a pair of  $\tau$  leptons 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.  
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- XVII.  $K_S^0$  and  $\Lambda(\Lambda^-)$  two-particle femtoscopic correlations in PbPb collisions at  $\sqrt{s_{NN}}=5.02$  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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- XVIII. Observation of the  $\Lambda_b^0 \rightarrow J/\psi \Xi^- K^+$  decay**  
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- XIX. Measurement of the  $B_s^0 \rightarrow J/\psi K_S^0$  effective lifetime from proton-proton collisions at  $s = 13$  TeV**  
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- XX. 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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- XXI. 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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- XXII. Search for bottom-type vectorlike quark pair production in dileptonic and fully hadronic final states 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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- XXIII. 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.  
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- XXIV. 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.  
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- XXV. Multiplicity and transverse momentum dependence of charge-balance functions in pPb and PbPb collisions at LHC energies**  
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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- XXVI. 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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- XXVII. 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.  
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.855, 2024 (SCI-Expanded)

- XXVIII. **Constraints on anomalous Higgs boson couplings from its production and decay using the WW channel 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.  
European Physical Journal C, cilt.84, sa.8, 2024 (SCI-Expanded)
- XXIX. **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)
- XXX. **Measurement of multijet azimuthal correlations and determination of the strong coupling 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.  
European Physical Journal C, cilt.84, sa.8, 2024 (SCI-Expanded)
- XXXI. **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.  
Physical Review Letters, cilt.133, sa.2, 2024 (SCI-Expanded)
- XXXII. **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.  
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- XXXIII. **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)
- XXXIV. **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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- XXXV. **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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- XXXVI. **Search for dark QCD with emerging jets 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.  
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- XXXVII. **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)
- XXXVIII. **Search for a scalar or pseudoscalar dilepton resonance produced in association with a massive vector boson or top quark-antiquark pair in multilepton events at  $\sqrt{s}=13 \text{ TeV}$**   
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle

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- XXXIX. **Search for ZZ and ZH production in the  $bb\bar{b}b\bar{b}$  final state using 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.  
European Physical Journal C, cilt.84, sa.7, 2024 (SCI-Expanded)
- XL. **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)
- XLI. **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.  
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- XLII. **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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- XLIII. **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.  
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- XLIV. **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)
- XLV. **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.  
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- XLVI. **Observation of the Formula Presented decay in proton-proton collisions at Formula Presented**  
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- XLVII. **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.  
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- XLVIII. **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)
- XLIX. **Search for long-lived particles decaying to final states with a pair of muons in proton-proton collisions at  $s = 13.6$  TeV**

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- L. **Development of the CMS detector for the CERN LHC Run 3**  
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- LI. **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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- LII. **Search for  $W'$  bosons decaying to a top and a bottom quark in leptonic final states in proton-proton collisions at  $s = 13$  TeV**  
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- LIII. **Inclusive and differential cross section measurements of  $t\bar{t}b\bar{b}$  production in the lepton+jets channel at  $s = 13$  TeV**  
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- LIV. **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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- LV. **Search for an exotic decay of the Higgs boson into a Z boson and a pseudoscalar particle in proton-proton collisions at  $s=13$ TeV**  
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- CXXVII. **Search for the standard model Higgs boson produced in association with a W or a Z boson and decaying to bottom quarks**

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- CXXXIII. **Search for Top Squarks in R-Parity-Violating Supersymmetry Using Three or More Leptons and b-Tagged Jets**  
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- CXXXIV. **Search for a non-standard-model Higgs boson decaying to a pair of new light bosons in four-muon final states**  
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- CXXXVI. **The performance of the CMS muon detector in proton-proton collisions at  $\sqrt{s}=7$  TeV at the LHC**  
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- CXXXVII. **Searches for new physics using the  $t(\bar{t})$  invariant mass distribution in pp collisions at  $\sqrt{s}=8$  TeV**  
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- CXXXIX. **Interpretation of searches for supersymmetry with simplified models**  
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- CXLII. **Searches for Higgs bosons in pp collisions at  $\sqrt{s}=7$  and 8 TeV in the context of four-generation and fermiophobic models**  
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- CXLIII. **Inclusive Search for Supersymmetry Using Razor Variables in pp Collisions at  $\sqrt{s}=7$  TeV**  
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- CXLIV. **Measurement of masses in the  $t(\tilde{t})$  system by kinematic endpoints in pp collisions at  $\sqrt{s}=7$  TeV**  
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- CXLV. **search for new physics in events with same-sign dileptons and b jets in pp collisions at  $\sqrt{s} = 8$  TeV**  
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- CXLVI. **Search for narrow resonances using the dijet mass spectrum in pp collisions at  $\sqrt{s}=8$  TeV**  
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- CXLVII. **Search for heavy resonances in the  $W/Z$ -tagged dijet mass spectrum in pp collisions at 7 TeV**  
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- CXLVIII. **Measurements of differential jet cross sections in proton-proton collisions at  $\sqrt{s}=7$  TeV with the CMS detector**  
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- CXLIX. **Forward-backward asymmetry of Drell-Yan lepton pairs in pp collisions at  $\sqrt{s}=7$  TeV**

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Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroo J., Fabjan C., et al.  
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- CLI. **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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- CLII. **Measurement of associated production of vector bosons and top quark-antiquark pairs in pp collisions at root s=7 TeV**  
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- CLIII. **Measurement of differential top-quark-pair production cross sections in pp collisions at root s=7 TeV**  
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- CLIV. **Measurement of the Upsilon(1S), Upsilon(2S), and Upsilon(3S) Polarizations in pp Collisions at root s 7 TeV**  
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- CLV. **Search for Pair Production of Third-Generation Leptoquarks and Top Squarks in pp Collisions at root s=7 TeV**  
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- CLVI. **Search for contact interactions in mu(+)mu(-) events in pp collisions at root s = 7 TeV**  
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- CLVII. **Search in leptonic channels for heavy resonances decaying to long-lived neutral particles**  
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- CLVIII. **Search for supersymmetry in events with photons and low missing transverse energy in pp collisions at root s=7 TeV**  
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- CLIX. **Measurement of the Azimuthal Anisotropy of Neutral Pions in Pb-Pb Collisions at root S-NN=2.76 TeV**  
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- CLX. **Search for flavor changing neutral currents in top quark decays in pp collisions at 7 TeV**



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- CLXI. **Search for a narrow, spin-2 resonance decaying to a pair of Z bosons in the  $q(q)\overline{b}l^{(+)}l^{(-)}$  final state**  
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- CLXII. **Search for a  $W'$  boson decaying to a bottom quark and a top quark in pp collisions at  $\sqrt{s}=7$  TeV**  
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- CLXIII. **Observation of a diffractive contribution to dijet production in proton-proton collisions at  $\sqrt{s}=7$  TeV**  
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- CLXIV. **Evidence for Associated Production of a Single Top Quark and W Boson in pp Collisions at  $\sqrt{s}=7$  TeV**  
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- CLXV. **Studies of jet quenching using isolated-photon plus jet correlations in PbPb and pp collisions at  $\sqrt{s(NN)}=2.76$  TeV**  
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- CLXVI. **Search for new physics in events with opposite-sign leptons, jets, and missing transverse energy in pp collisions at  $\sqrt{s}=7$  TeV**  
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- CLXVII. **Observation of long-range, near-side angular correlations in pPb collisions at the LHC**  
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- CLXVIII. **Measurement of the elliptic anisotropy of charged particles produced in PbPb collisions at  $\sqrt{s(NN)}=2.76$  TeV**  
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- CLXIX. **Search for heavy lepton partners of neutrinos in proton-proton collisions in the context of the type III seesaw mechanism**  
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PHYSICS LETTERS B, cilt.718, sa.2, ss.348-368, 2012 (SCI-Expanded)
- CLXX. **Search for three-jet resonances in pp collisions at  $\sqrt{s}=7$  TeV**  
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- CLXXI. **Observation of Z decays to four leptons with the CMS detector at the LHC**

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JOURNAL OF HIGH ENERGY PHYSICS, sa.12, 2012 (SCI-Expanded)

- CLXXII. **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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- CLXXIII. **A search for a doubly-charged Higgs boson in pp collisions at root s=7 TeV**  
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- CLXXIV. **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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- CLXXV. **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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- CLXXVI. **Performance of CMS muon reconstruction in pp collision events at root s=7TeV**  
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- CLXXVII. **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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- CLXXVIII. **Inclusive and differential measurements of the t(t)over-bar charge asymmetry in proton-proton collisions root s=7 TeV**  
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- CLXXIX. **Search for supersymmetry in events with b-quark jets and missing transverse energy in pp collisions at 7 TeV**  
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PHYSICAL REVIEW D, cilt.86, sa.7, 2012 (SCI-Expanded)
- CLXXX. **Search for a W ' or Techni-rho Decaying into WZ 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., Ero J., Fabjan C., et al.  
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- CLXXXI. **Measurement of the top-quark mass in t(t)over-bar events with dilepton final states in pp collisions at root s=7 TeV**  
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- CLXXXII. **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.

PHYSICS LETTERS B, cilt.717, ss.109-128, 2012 (SCI-Expanded)

**CLXXXIII. 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., Eroe J., Fabjan C., Friedl M., et al.

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

**CLXXXIV. Measurement of the Electron Charge Asymmetry in Inclusive W Production in 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.

PHYSICAL REVIEW LETTERS, cilt.109, sa.11, 2012 (SCI-Expanded)

**CLXXXV. 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., Eroe J., Fabjan C., Friedl M., et al.

EUROPEAN PHYSICAL JOURNAL C, cilt.72, sa.9, 2012 (SCI-Expanded)

**CLXXXVI. Observation of a new boson at a mass of 125 GeV with the CMS experiment at the LHC**

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, cilt.716, sa.1, ss.30-61, 2012 (SCI-Expanded)

**CLXXXVII. Search for a Light Pseudoscalar Higgs Boson in the Dimuon Decay Channel in 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.

PHYSICAL REVIEW LETTERS, cilt.109, sa.12, 2012 (SCI-Expanded)

**:LXXXVIII. 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**

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

PHYSICS LETTERS B, cilt.716, sa.2, ss.260-284, 2012 (SCI-Expanded)

**CLXXXIX. 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., Eroe J., Fabjan C., Friedl M., et al.

PHYSICS LETTERS B, cilt.716, sa.1, ss.82-102, 2012 (SCI-Expanded)

**CXC. 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., Eroe J., Fabjan C., et al.

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

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

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

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