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Eğitim Bilgileri

Doktora, Çukurova Üniversitesi, Fen-Edebiyat Fakültesi, Fizik, Türkiye 1996 - 2001

Yabancı Diller

İngilizce, B2 Orta Üstü

Yaptığı Tezler

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Araştırma Alanları

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- I. **Search for light long-lived particles decaying to displaced jets in proton-proton collisions at $\sqrt{s} = 13.6$ TeV**
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- II. **Search for the Higgs boson decays to a ρ^0 , ϕ , or K^*0 meson and a photon in proton-proton collisions at $s=13$ TeV**
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- III. **Pseudorapidity distributions of charged hadrons in lead-lead collisions at $s_{NN}=5.36$ TeV**
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- IV. **Girth and groomed radius of jets recoiling against isolated photons in lead-lead and proton-proton collisions at $s_{NN}=5.02$ TeV**
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- V. **Constraints on the Higgs boson self-coupling from the combination of single and double Higgs boson production in proton-proton collisions at $s=13$ TeV**
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- VI. **Measurement of inclusive and differential cross sections for $W+W^-$ production in proton-proton collisions at $s=13.6$ TeV**

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- VII. **Search for New Resonances Decaying to Pairs of Merged Diphotons in Proton-Proton Collisions at (Formula presented)**
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- VIII. **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 $s=13\text{TeV}$**
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- IX. **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 $s=13\text{TeV}$**
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- X. **Search for charged-lepton flavor violation in the production and decay of top quarks using trilepton 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., Escalante Del Valle A., Hussain P., et al.
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- XI. **Search for bottom quark associated production of the standard model Higgs boson in final states with leptons in proton-proton collisions at $s=13\text{TeV}$**
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- XII. **Searches for Pair-Produced Multijet Resonances Using Data Scouting in Proton-Proton Collisions at $\sqrt{s}=13\text{TeV}$**
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- XIII. **Search for Soft Unclustered Energy Patterns in Proton-Proton Collisions at 13 TeV**
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- XIV. **Using graph neural networks to reconstruct charged pion showers in the CMS High Granularity Calorimeter**
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- XV. **Performance of the CMS high-level trigger during LHC Run 2**
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- XVI. **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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- XVII. **Observation of double Formula Presented meson production in Formula Presented collisions at**

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- XVIII. **Search for the Z Boson Decay to $\tau\tau\mu\mu$ in Proton-Proton Collisions at $\sqrt{s}=13$ TeV**
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- XIX. **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.
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- XX. **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]**
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- XXI. **KS0 and $\Lambda(\Lambda^-)$ two-particle femtoscopic correlations in PbPb collisions at $s_{NN}=5.02$ 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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- XXII. **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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- XXIII. **Searches for violation of Lorentz invariance in top quark pair production using dilepton events in 13 TeV proton-proton collisions**
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- XXIV. **Measurement of differential ZZ + jets production cross sections in pp collisions at $s = 13$ TeV**
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- XXV. **Observation of the $\Lambda b0 \rightarrow J/\psi \Xi^- K^+$ decay**
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- XXVI. **Measurement of the $Bs0 \rightarrow J/\psi KS0$ effective lifetime from proton-proton collisions at $s = 13$ TeV**
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- XXVII. **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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- XXVIII. **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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- XXXIX. **Performance of the CMS electromagnetic calorimeter in pp collisions at $\sqrt{s} = 13$ TeV**
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- XXX. **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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- XXXI. **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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- XXXII. **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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- XXXIII. **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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- XXXIV. **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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- XXXV. **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.
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- XXXVI. **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.
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- XXXVII. **Search for new physics in high-mass diphoton events from proton-proton collisions at $s = 13$ TeV**
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- XXXVIII. **Evidence for tWZ production in proton-proton collisions at $s=13$ TeV in multilepton final states**
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- XXXIX. **Observation of the Formula Presented Meson and Suppression of Formula Presented States in Pb-Pb Collisions at Formula Presented**

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- XL. **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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- XLII. **Search for ZZ and ZH production in the $b\bar{b}b\bar{b}$ final state using proton-proton collisions at $s=13\text{TeV}$**
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- XLIII. **Search for long-lived heavy neutral leptons decaying in the CMS muon detectors in proton-proton collisions at Formula Presented**
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- XLIV. **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.
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- XLV. **Search for dark QCD with emerging jets in proton-proton collisions at $s = 13 \text{ TeV}$**
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- XLVI. **Observation of the Formula Presented decay and studies of the Formula Presented baryon in proton-proton collisions at Formula Presented**
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- XLVII. **Search for high-mass exclusive diphoton production with tagged protons in proton-proton collisions at Formula Presented**
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- XLVIII. **Search for a scalar or pseudoscalar dilepton resonance produced in association with a massive vector boson or top quark-antiquark ff pair in multilepton events at $\sqrt{s}=13 \text{ TeV}$**
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- XLIX. **Combination of Measurements of the Top Quark Mass from Data Collected by the ATLAS and CMS Experiments at $\sqrt{s}=7 \text{ and } 8 \text{ TeV}$**
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- L. **Search for Baryon Number Violation in Top Quark Production and Decay Using Proton-Proton Collisions at Formula Presented**
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- L. **Search for stealth supersymmetry in final states with two photons, jets, and low missing transverse**

momentum in proton-proton collisions at Formula Presented

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- LI. **Search for the lepton flavor violating $\tau \rightarrow 3\mu$ decay in proton-proton collisions at $s=13\text{TeV}$**
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- LII. **Search for pair production of scalar and vector leptoquarks decaying to muons and bottom quarks in proton-proton collisions at Formula Presented**
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- LIII. **Combined search for electroweak production of winos, binos, higgsinos, and sleptons in proton-proton collisions at Formula Presented**
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- LIV. **Observation of the Formula Presented decay in proton-proton collisions at Formula Presented**
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- LV. **Nonresonant central exclusive production of charged-hadron pairs in proton-proton collisions at Formula Presented**
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- LVI. **Search for long-lived particles using displaced vertices and missing transverse momentum in proton-proton collisions at Formula Presented**
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- LVII. **Measurement of the primary Lund jet plane density in proton-proton collisions at $s = 13 \text{ TeV}$**
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- CXXV. **Measurement of the t(t)over-bar production cross section in the dilepton channel in pp collisions at root s = 8 TeV (vol 2, 024, 2014)**
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- CXXVI. **Search for the standard model Higgs boson produced in association with a W or a Z boson and decaying to bottom quarks**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
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- CXXVII. **Determination of the top-quark pole mass and strong coupling constant from the t(t)over-bar production cross section in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
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- CXXVIII. **Measurement of Higgs boson production and properties in the WW decay channel with leptonic final states**
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- CXXIX. **Study of double parton scattering using W + 2-jet events in proton-proton collisions at $\sqrt{s} = 7$ TeV**
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- CXXX. **Rapidity distributions in exclusive Z plus jet and gamma plus jet events in pp collisions at root s=7 TeV**
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- CXXXI. **Measurement of the prompt J/psi and psi(2S) polarizations in pp collisions at root s=7 TeV**
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- CXXXII. **Jet and underlying event properties as a function of charged-particle multiplicity in proton-proton collisions at root s=7 TeV**
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- CXXXIII. **Search for Top Squarks in R-Parity-Violating Supersymmetry Using Three or More Leptons and b-Tagged Jets**
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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- CXXXIV. **Search for a new bottomonium state decaying to Upsilon(1S)pi(+)pi(-) in pp collisions at root s=8 TeV**
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- CXXXV. **Search for a non-standard-model Higgs boson decaying to a pair of new light bosons in four-muon final states**
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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- CXXXVI. **Measurement of the Upsilon(1S), Upsilon(2S), and Upsilon(3S) cross sections in pp collisions at root s=7 TeV**
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- CXXXVII. **Searches for new physics using the t(t)over-bar invariant mass distribution in pp collisions at root s=8 TeV**
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- CXXXVIII. **The performance of the CMS muon detector in proton-proton collisions at root s=7 TeV at the LHC**
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- JOURNAL OF INSTRUMENTATION, cilt.8, 2013 (SCI-Expanded)
- CXXXIX. **Measurement of the hadronic activity in events with a Z and two jets and extraction of the cross section for the electroweak production of a Z with two jets in pp collisions at root s=7 TeV**
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- CXL. **Measurement of the ratio of the inclusive 3-jet cross section to the inclusive 2-jet cross section in pp collisions at root s=7 TeV and first determination of the strong coupling constant in the TeV range**
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- CXLI. **Measurement of the W+W- cross section in pp collisions at and limits on anomalous WW gamma and WWZ couplings**
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- CXLII. **Search for gluino mediated bottom- and top-squark production in multijet final states in pp collisions at 8 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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- CXLIII. **Measurement of the W-boson helicity in top-quark decays from t(t)over-bar production in lepton plus jets events 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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- CXLIV. **Measurement of neutral strange particle production in the underlying event in proton-proton collisions at root s=7 TeV**
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- CXLV. **Interpretation of searches for supersymmetry with simplified models**
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- CXLVI. **Measurement of the B-s(0) ->mu(+)mu(-) Branching Fraction and Search for B-0 -> mu(+)mu(-) with the CMS Experiment**
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- CXLVII. **Searches for Higgs bosons in pp collisions at root s=7 and 8 TeV in the context of four-generation and fermiophobic models**
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- CXLVIII. **Inclusive Search for Supersymmetry Using Razor Variables in pp Collisions at root s=7 TeV**
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- CXLIX. **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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- CL. **Measurement of masses in the $t(\bar{t})$ system by kinematic endpoints 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.
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- CLII. **Search for heavy resonances in the W/Z -tagged dijet mass spectrum in pp collisions at 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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- CLIII. **Measurements of differential jet cross sections in proton-proton collisions at root $s=7$ TeV with the CMS detector**
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.87, sa.11, 2013 (SCI-Expanded)
- CLIV. **Forward-backward asymmetry of Drell-Yan lepton pairs in pp collisions at root $s=7$ TeV**
POLATÖZ A., DUMANOĞLU İ., EŞKUT E., KAYIŞ TOPAKSU A., ÖNENGÜT G.
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- CLV. **Search for narrow resonances using the dijet mass spectrum in pp collisions at root $s=8$ 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.87, sa.11, 2013 (SCI-Expanded)
- CLVI. **Search for supersymmetry in pp collisions at root $s=7$ TeV in events with a single lepton, jets, and missing transverse momentum**
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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- CLVII. **Search for long-lived particles in events with photons and missing energy in proton-proton 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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- CLVIII. **Measurement of associated production of vector bosons and top quark-antiquark pairs 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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- CLIX. **Search in leptonic channels for heavy resonances decaying to long-lived neutral particles**
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- CLX. **Search for Pair Production of Third-Generation Leptoquarks and Top Squarks 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 LETTERS, cilt.110, sa.8, 2013 (SCI-Expanded)
- CLXI. **Search for contact interactions in $\mu(+)\mu(-)$ 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.
PHYSICAL REVIEW D, cilt.87, sa.3, 2013 (SCI-Expanded)

- CLXI. **Search for supersymmetry in events with photons and low missing transverse energy 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.719, ss.42-61, 2013 (SCI-Expanded)
- CLXII. **Measurement of the sum of WW and WZ production with W plus dijet 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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- CLXIII. **Measurement of the Upsilon(1S), Upsilon(2S), and Upsilon(3S) Polarizations 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 LETTERS, cilt.110, sa.8, 2013 (SCI-Expanded)
- CLXIV. **Measurement of the elliptic anisotropy of charged particles produced in PbPb collisions at root $s_{NN}=2.76$ TeV**
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PHYSICAL REVIEW C, cilt.87, sa.1, 2013 (SCI-Expanded)
- CLXV. **Observation of long-range, near-side angular correlations in pPb collisions 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.
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- CLXVI. **Search for a narrow, spin-2 resonance decaying to a pair of Z bosons in the $q(q)\overline{l}(+)l(-)$ final state**
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.718, ss.1208-1228, 2013 (SCI-Expanded)
- CLXVII. **Search for a W' boson decaying to a bottom quark and a top quark 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.718, ss.1229-1251, 2013 (SCI-Expanded)
- CLXVIII. **Search for flavor changing neutral currents in top quark decays in pp collisions at 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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- CLXIX. **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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- CLXX. **Measurement of the Azimuthal Anisotropy of Neutral Pions in Pb-Pb Collisions at root $S_{NN}=2.76$ TeV**
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PHYSICAL REVIEW LETTERS, cilt.110, sa.4, 2013 (SCI-Expanded)
- CLXXI. **Evidence for Associated Production of a Single Top Quark and W Boson in pp Collisions at root $s=7$ TeV**
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- PHYSICAL REVIEW LETTERS, cilt.110, sa.2, 2013 (SCI-Expanded)
- CLXXII. **Observation of a diffractive contribution to dijet production in proton-proton 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.87, sa.1, 2013 (SCI-Expanded)
- CLXXIII. **Search for new physics in events with opposite-sign leptons, jets, and missing transverse energy in pp collisions at root s=7 TeV**
Chatrchyan S., Collaboration C. M. S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., et al.
PHYSICS LETTERS B, cilt.718, sa.3, ss.815-840, 2013 (SCI-Expanded)
- CLXXIV. **Measurement of the differential and double-differential Drell-Yan cross sections in proton-proton 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.2013, sa.12, 2013 (SCI-Expanded)
- CLXXV. **Search for heavy lepton partners of neutrinos in proton-proton collisions in the context of the type III seesaw mechanism**
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.718, sa.2, ss.348-368, 2012 (SCI-Expanded)
- CLXXVI. **Search for third-generation leptoquarks and scalar bottom quarks in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Erö J., Fabjan C., et al.
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- CLXXVII. **Observation of Z decays to four leptons with the CMS detector at the LHC**
Chatrchyan S., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Erö J., Fabjan C., et al.
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- CLXXVIII. **Search for pair produced fourth-generation up-type quarks in pp collisions at root s=7 TeV with a lepton in the final state**
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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- CLXXIX. **Measurement of jet fragmentation into charged particles in pp and PbPb collisions at $\sqrt{s} NN = 2:76$ 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.10, 2012 (SCI-Expanded)
- CLXXX. **Search for exclusive or semi-exclusive gamma gamma production and observation of exclusive and semi-exclusive $e^{(+)}e^{(-)}$ production 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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- CLXXXI. **A search for a doubly-charged Higgs boson 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.
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- CLXXXII. **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., Eroe J., Fabjan C., et al.

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- CLXXXIII. **Measurement of the top-quark mass in $t(\bar{t})$ events with dilepton final states in pp collisions at $\sqrt{s}=7$ TeV**
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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- CLXXXIV. **Search for charge-asymmetric production of W^\pm bosons in $t(\bar{t})$ plus jet events from pp collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, cilt.717, ss.351-370, 2012 (SCI-Expanded)
- CLXXXV. **Search for supersymmetry in events with b-quark jets and missing transverse energy in pp collisions at 7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroo J., Fabjan C., et al.
PHYSICAL REVIEW D, cilt.86, sa.7, 2012 (SCI-Expanded)
- CLXXXVI. **Search for heavy Majorana neutrinos in $\mu^{+/-}\mu^{+/-} +$ jets and $e^{+/-}e^{+/-} +$ jets events in pp collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroo J., Fabjan C., et al.
PHYSICS LETTERS B, cilt.717, ss.109-128, 2012 (SCI-Expanded)
- CLXXXVII. **Search for supersymmetry in hadronic final states using M-T2 in pp collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
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- CLXXXVIII. **Measurement of the Pseudorapidity and Centrality Dependence of the Transverse Energy Density in Pb-Pb Collisions at $\sqrt{s(NN)}=2.76$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
PHYSICAL REVIEW LETTERS, cilt.109, sa.15, 2012 (SCI-Expanded)
- CLXXXIX. **Study of the inclusive production of charged pions, kaons, and protons in pp collisions at $\sqrt{s}=0.9, 2.76,$ and 7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroo J., Fabjan C., et al.
EUROPEAN PHYSICAL JOURNAL C, cilt.72, sa.10, 2012 (SCI-Expanded)
- CXC. **Performance of CMS muon reconstruction in pp collision events at $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
JOURNAL OF INSTRUMENTATION, cilt.7, 2012 (SCI-Expanded)
- CXCI. **Inclusive and differential measurements of the $t(\bar{t})$ charge asymmetry in proton-proton collisions $\sqrt{s}=7$ TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroo J., Fabjan C., et al.
PHYSICS LETTERS B, cilt.717, ss.129-150, 2012 (SCI-Expanded)
- CXCII. **Search for New Physics in the Multijet and Missing Transverse Momentum Final State in Proton-Proton Collisions at $\sqrt{s}=7$ TeV**
Chatrchyan S., Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., et al.
PHYSICAL REVIEW LETTERS, cilt.109, sa.17, 2012 (SCI-Expanded)
- CXCIII. **Search for heavy, top-like quark pair production in the dilepton final state in pp collisions at $\sqrt{s}=7$ TeV**

- Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, cilt.716, sa.1, ss.103-121, 2012 (SCI-Expanded)
- CXCIV. **Search for a Light Pseudoscalar Higgs Boson in the Dimuon Decay Channel in pp Collisions at root s=7 TeV**
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