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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

Çukurova Üniversitesi, 2016 - Devam Ediyor

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

Yönetilen Tezler

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SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Search for light long-lived particles decaying to displaced jets 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.
Reports on Progress in Physics, cilt.88, sa.3, 2025 (SCI-Expanded)
- II. **Search for the Higgs boson decays to a $\rho 0$, ϕ , or K^*0 meson and a photon 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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- III. **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**
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.861, 2025 (SCI-Expanded)
- IV. **Girth and groomed radius of jets recoiling against isolated photons in lead-lead and proton-proton collisions at $s_{NN}=5.02$ 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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- V. **Measurement of inclusive and differential cross sections for $W+W^-$ production in proton-proton collisions at $s=13.6$ TeV**

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- VI. **Pseudorapidity distributions of charged hadrons in lead-lead collisions at $s_{NN}=5.36\text{TeV}$**
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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- VII. **Search for New Resonances Decaying to Pairs of Merged Diphotons 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 Letters, cilt.134, sa.4, 2025 (SCI-Expanded)
- VIII. **The effect of radiation damage on the light yield and uniformity of candidate plastic scintillator tiles for the CMS hadron calorimeter upgrade**
Gevorgyan A., Petrosyan A., Tumasyan A., Van De Klundert M., Van Haeveermaet H., Van Mechelen P., Van Spilbeeck A., Alves G., Hensel C., Aldá Júnior W., et al.
Journal of Instrumentation, cilt.20, sa.1, 2025 (SCI-Expanded)
- 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 $s=13\text{TeV}$**
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.860, 2025 (SCI-Expanded)
- X. **Search for charged-lepton flavor violation in the production and decay of top quarks using tripleton 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 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 $s=13\text{TeV}$**
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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- XII. **Search for bottom quark associated production of the standard model Higgs boson in final states with leptons in proton-proton collisions at $s=13\text{TeV}$**
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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- XIII. **Searches for Pair-Produced Multijet Resonances Using Data Scouting 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., Hussain P., Jeitler M., et al.
Physical review letters, cilt.133, sa.20, ss.201803, 2024 (SCI-Expanded)
- XIV. **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.
Physical review letters, cilt.133, sa.19, ss.191902, 2024 (SCI-Expanded)
- XV. **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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- XVI. **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.
Journal of Instrumentation, cilt.19, sa.11, 2024 (SCI-Expanded)
- XVII. **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.
Physical Review D, cilt.110, sa.9, 2024 (SCI-Expanded)
- XVIII. **Search for the Z Boson Decay to $\tau\tau\mu\mu$ 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., Hussain P., Jeitler M., et al.
Physical review letters, cilt.133, sa.16, ss.161805, 2024 (SCI-Expanded)
- 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. **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.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.857, 2024 (SCI-Expanded)
- XXI. **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)
- XXII. **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.
Journal of High Energy Physics, cilt.2024, sa.10, 2024 (SCI-Expanded)
- XXIII. **Observation of the $\Lambda b^0 \rightarrow J/\psi \Xi^- K^+$ 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.
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- XXIV. **Measurement of differential ZZ + jets production cross sections in pp 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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- XXV. **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.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.857, 2024 (SCI-Expanded)
- XXVI. **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.
Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, cilt.857, 2024 (SCI-Expanded)
- XXVII. **Measurement of the $B_s^0 \rightarrow J/\psi K_S^0$ effective lifetime 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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- 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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- XXIX. **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.
Physical Review D, cilt.110, sa.5, 2024 (SCI-Expanded)
- XXX. **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.
Journal of Instrumentation, cilt.19, sa.9, 2024 (SCI-Expanded)
- XXXI. **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)
- 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.
Physical Review Letters, cilt.133, sa.7, 2024 (SCI-Expanded)
- XXXIII. **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)
- XXXIV. **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.
Journal of High Energy Physics, cilt.2024, sa.8, 2024 (SCI-Expanded)
- XXXV. **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.
European Physical Journal C, cilt.84, sa.8, 2024 (SCI-Expanded)
- XXXVI. **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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- XXXVII. **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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- XXXVIII. **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)

XXXIX. 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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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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XLI. Search for ZZ and ZH production in the $bb\bar{b}\bar{b}$ 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)

XLII. Search for high-mass exclusive diphoton production with tagged protons in proton-proton collisions at Formula Presented

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Physical Review D, cilt.110, sa.1, 2024 (SCI-Expanded)

XLIII. 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.
Physical Review D, cilt.110, sa.1, 2024 (SCI-Expanded)

XLIV. Search for a scalar or pseudoscalar dilepton resonance produced in association with a massive vector boson or top quark-antiquark $ff\bar{f}\bar{f}$ 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 A., Hussain P., Jeitler M., et al.
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XLV. Search for long-lived heavy neutral leptons decaying in the CMS muon detectors in proton-proton collisions at Formula Presented

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Physical Review D, cilt.110, sa.1, 2024 (SCI-Expanded)

XLVI. 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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XLVII. Search for dark QCD with emerging jets in proton-proton collisions at $s = 13\text{ TeV}$

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XLVIII. Combination of Measurements of the Top Quark Mass from Data Collected by the ATLAS and CMS Experiments at $\sqrt{s}=7\text{ and }8\text{ TeV}$

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)

XLIX. 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**
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)
- LI. **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.
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- LII. **Observation of the Formula Presented decay in proton-proton collisions at Formula Presented**
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- LIII. **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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- LIV. **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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- LV. **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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- LVI. **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.
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- LVII. **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.)**
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- LVIII. **Inclusive and differential cross section measurements of $t\bar{t}b\bar{b}$ production in the lepton+jets channel at $s = 13 \text{ TeV}$**
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- CLXXXII. **Search for heavy Majorana neutrinos in $\mu(+/-)\mu(+/-) + \text{jets}$ and $e(+/-)e(+/-) + \text{jets}$ events in pp collisions at $\sqrt{s}=7$ TeV**
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at root s=7 TeV

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