

# ÖZGEÇMİŞ

## 1 GENEL

DÜZENLEME TARİHİ	20.11.2013			Fotoğraf
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## 2 EĞİTİM

DERECE	BÖLÜM/PROGRAM	ÜNİVERSİTE	MEZUNİYET TARİHİ
Lisans	Fizik	İstanbul Üniversitesi	1992
Yüksek Lisans	Fizik	Istanbul Teknik Üniversitesi	1993
Yüksek Lisans	Fizik/Deneysel Yüksek enerji	Iowa University	1997
Doktor	Fizik/Deneysel Yüksek enerji	Iowa University	2000

## 3 AKADEMİK VE MESLEKİ DENEYİM

GÖREV	GÖREV DÖNEMİ*	BÖLÜM/BİRİM	ÜLKE	ŞEHİR	KURUM/KURULUŞ
Araştırma Görevlisi (Amerika da burslu)	1993-1998	Fizik/Deneysel Yüksek enerji	Türkiye	Kars	Kafkas Üniversitesi
Araştırma görevlisi	1998-2000	Fizik/Deneysel Yüksek enerji	Amerika	Iowa City	Iowa Üniversitesi
Doktora Sonrası araştırmacı (posdoc)	2000-2001	Fizik/Deneysel Yüksek enerji	Amerika	Iowa City	Iowa Üniversitesi
Yardımcı Doçent	2002-2005	Fizik/Deneysel Yüksek enerji	Türkiye	Kars	Kafkas Üniversitesi
Doçent	2005-2011	Fizik/Deneysel Yüksek enerji	Türkiye	Kars	Kafkas Üniversitesi
Profesör	2011-	Fizik/Deneysel Yüksek enerji	Türkiye	Kars	Kafkas Üniversitesi

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## 4 BİLİMSEL FAALİYETLER

### 4.1 Yönetilen Yüksek Lisans ve Doktora Tezleri

1. Mustafa Sahin Bulbul, CMS Deneyindeki HF Dedektörü'nün Enerji Linear ligi ve Enerji çözünürlüğü", Kafkas Üniversitesi, Fen Bilimleri Enstitüsü, 2004.
2. Serkan Ulu, An Object Oriented Data analysis Framework (ROOT) ve CMS-CERN deneyinde HF dedektörleri ile ilgili Kaynak data analizi. Kafkas Üniversitesi, Fen Bilimleri Enstitüsü, 2006.
3. Ozlem Kaya, "Kompakt Müon Selonoid CERN deneyinde Hadronik Son Başlık Kalorimetresinin Müon Kalibrasyonu", Kafkas Üniversitesi, Fen Bilimleri Enstitüsü, 2008.
4. Ahmet Yıldız, "Deniz Seviyesinde Kozmik Işın Akı Oranı ve Uçuş Zamanının Bir Sintilasyon Dedektörü ile Tespit Edilmesi" Kafkas Üniversitesi, Fen Bilimleri Enstitüsü, 2008.
5. Gokhan Taştan, "ALPGEN Simülasyonu İle Top Kuarkın Üretilmesi" Kafkas Üniversitesi, Fen Bilimleri Enstitüsü, 2008.
6. Gunay Merhan, "Corsika Simülasyon Programı ile Farklı Enerjilerdeki TAU Parçacıklarının Üretimi" Kafkas Üniversitesi, Fen Bilimleri Enstitüsü, 2010.
7. Erdal Kurt, "Tauwer Deneyinde Kullanılacak Prototipin Sonuçları", Kafkas Üniversitesi, Fen Bilimleri Enstitüsü 2011
8. Sevgi Tekten, "CMS-HF Detektörlerinin Yenilenmesinde Kullanılacak Fotoçoğaltıcı Tüplerinin  $e^-$  ve  $\pi^-$  Sınama Demetleri İle Analizi", Kafkas Üniversitesi, Fen Bilimleri Enstitüsü 2012
9. Mehtap Atakan. "Sintilatör dedektörleri ile Kars Yoresinde Kozmik isin aki yoğunluğunun olculmesi". Beklenen mezuniyet tarihi 03/2014.
10. Okan Atakişi. "silikon PMTlerin gainlerinin sicaklik ile degisimi". Beklenen mezuniyet tarihi 03/2014.
11. Özlem Kaya. "Büyük Hadron Çarpıştırıcısındaki, CERN-CMS Deneyinde 7 TeV Kütle Merkezi Enerjisine Sahip proton-proton Çarpışmasında Kapsamlı Jet Tesir Kesiti Ölçümü". (Doktora) Beklenen mezuniyet tarihi 03/2014.
12. Sevgi Tekten. Ders aşamasında (Doktora)

### 4.2 Yayınlar

#### 4.2.1 Uluslararası Hakemli Dergilerde Yayımlanan ve Science Citation Index Tarafından Taranan Makaleler.

1. Measurement of the production cross section for  $Z\gamma \rightarrow \nu\bar{\nu}(\text{bar})\gamma$  in pp collisions at  $\sqrt{s} = 7$  TeV and limits on  $ZZ\gamma$  and  $Z\gamma\gamma$  triple gauge boson couplings. CMS Collaboration (Serguei Chatrchyan, ..., M.Kaya, ... et al.). Sep 4, 2013. 30 pp. Published in JHEP 1310 (2013) 164
2. Search for a new bottomonium state decaying to  $Y(1S)\pi^+\pi^-$  in pp collisions at  $\sqrt{s} = 8$  TeV CMS Collaboration (Serguei Chatrchyan, ..., M.Kaya, ... et al.). Sep 1, 2013. 27 pp. Published in Phys.Lett. B727 (2013) 57-76.
3. Measurement of the W-boson helicity in top-quark decays from  $t\bar{t}$  production in lepton+jets events in pp collisions at  $\sqrt{s} = 7$  TeV. CMS Collaboration (Serguei Chatrchyan, ..., M.Kaya, ... et al.). Aug 18, 2013. 45 pp. Published in JHEP 1310 (2013) 167.
4. Angular analysis and branching fraction measurement of the decay  $B_0 \rightarrow K^*0\mu^+\mu^-$ . CMS Collaboration (Serguei Chatrchyan, ..., M.Kaya, ... et al.). Aug 15, 2013. 33 pp. Published in Phys.Lett. B727 (2013) 77-100.
5. Search for a Higgs boson decaying into a Z and a photon in pp collisions at  $\sqrt{s} = 7$  and 8 TeV. CMS Collaboration (Serguei Chatrchyan, ..., M.Kaya, ... et al.). Jul 21, 2013. 29 pp. Published in Phys.Lett B726 (2013) 587-609.
6. Measurement of the B(s) to  $\mu^+\mu^-$  branching fraction and search for  $B_0$  to  $\mu^+\mu^-$  with the CMS Experiment. CMS Collaboration (Serguei Chatrchyan, ..., M.Kaya, ... et al.). Jul 18, 2013. 17 pp. Published in Phys.Rev.Lett. 111 (2013) 101804.
7. The performance of the CMS muon detector in proton-proton collisions at  $\sqrt{s} = 7$  TeV at the LHC. CMS Collaboration (Serguei Chatrchyan, ..., M.Kaya, ... et al.). Jun 28, 2013. 101 pp. Published in JINST 8 (2013) P11002.
8. Energy calibration and resolution of the CMS electromagnetic calorimeter in pp collisions at  $\sqrt{s} = 7$  TeV. CMS Collaboration (Serguei Chatrchyan, ..., M.Kaya, ... et al.). Jun 9, 2013. 51 pp. Published in JINST 8 (2013) P09009.

9. 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  $\sqrt{s} = 7$  TeV. CMS Collaboration (Serguei Chatrchyan, ..., M.Kaya, ... et al.). May 31, 2013. 39 pp. Published in JHEP 1310 (2013) 101.
10. Measurement of neutral strange particle production in the underlying event in proton-proton collisions at  $\sqrt{s} = 7$  TeV. CMS Collaboration (Serguei Chatrchyan, ..., M.Kaya, ... et al.). May 26, 2013. 33 pp. Published in Phys.Rev. D88 (2013) 052001.
11. Study of exclusive two-photon production of  $W+W^-$  in pp collisions at  $\sqrt{s}=7$  TeV and constraints on anomalous quartic gauge couplings. CMS Collaboration (Serguei Chatrchyan, ..., M.Kaya, ... et al.). May 23, 2013. 37 pp. Published in JHEP 1307 (2013) 116.
12. Search for gluino mediated bottom- and top-squark production in multijet final states in pp collisions at 8 TeV. CMS Collaboration (Serguei Chatrchyan, ..., M.Kaya, ... et al.). May 10, 2013. 28 pp. Published in Phys.Lett. B725 (2013) 243-270.
13. Multiplicity and transverse momentum dependence of two- and four-particle correlations in pPb and PbPb collisions. CMS Collaboration (Serguei Chatrchyan, ..., M.Kaya, ... et al.). May 2, 2013. 37 pp. Published in Phys.Lett. B724 (2013) 213-240.
14. Measurement of the ratio of the inclusive 3-jet cross section to the inclusive 2-jet cross section in pp collisions at  $\sqrt{s} = 7$  TeV and first determination of the strong coupling constant in the TeV range. CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Apr 28, 2013. Published in Eur.Phys.J. C73 (2013) 2604.
15. Measurement of the  $\Lambda^0_b$  lifetime in pp collisions at  $\sqrt{s}=7$  TeV. CMS Collaboration (Serguei Chatrchyan, ..., M.Kaya, ... et al.). Apr 28, 2013. Published in JHEP 07 (2013) 163.
16. Measurement of masses in the  $21\bar{t}$  system by kinematic endpoints in pp collisions at  $\sqrt{s} = 7$  TeV. CMS Collaboration (Serguei Chatrchyan (Yerevan Phys. Inst.) et al.). Apr 21, 2013. 28 pp. Published in Eur.Phys.J. C73 (2013) 2494.
17. Search for a standard-model-like Higgs boson with a mass in the range 145 to 1000 GeV at the LHC. CMS Collaboration (Serguei Chatrchyan, ..., M.Kaya, ... et al.). Mar 31, 2013. Published in Eur.Phys.J. C73 (2013) 2469.
18. Measurement of the  $Y(1S)$ ,  $Y(2S)$ , and  $Y(3S)$  cross sections in pp collisions at  $\sqrt{s} = 7$  TeV. CMS Collaboration (Serguei Chatrchyan, ..., M.Kaya, ... et al.). Mar 23, 2013. 57 pp. Published in Phys.Lett. B727 (2013) 101.
19. Search for microscopic black holes in pp collisions at  $\sqrt{s} = 8$  TeV. CMS Collaboration (Serguei Chatrchyan, ..., M.Kaya, ... et al.). Mar 21, 2013. 29 pp. Published in JHEP 1307 (2013) 178.
20. Studies of jet mass in dijet and  $W/Z + \text{jet}$  events. CMS Collaboration (Serguei Chatrchyan, ..., M.Kaya, ... et al.). Mar 19, 2013. 49 pp. Published in JHEP 1305 (2013) 090.
21. Observation of a new boson with mass near 125 GeV in pp collisions at  $\sqrt{s} = 7$  and 8 TeV. CMS Collaboration (Serguei Chatrchyan, ..., M.Kaya, ... et al.). Mar 19, 2013. 117 pp. Published in JHEP 1306 (2013) 081.
22. A New Boson with a Mass of 125 GeV Observed with the CMS Experiment at the Large Hadron Collider. CMS Collaboration (Serguei Chatrchyan, ..., M.Kaya, ... et al.). 2012. 7 16 pp. Published in Science 338 (2012) 1569-1575.
23. Measurement of associated production of vector bosons and top quark-antiquark pairs at  $\sqrt{s} = 7$  TeV. CMS Collaboration (Serguei Chatrchyan, ..., M.Kaya, ... et al.). Mar 13, 2013. 27 pp. Published in Phys.Rev.Lett. 110 (2013) 172002.
24. Search for supersymmetry in hadronic final states with missing transverse energy using the variables  $\text{AlphaT}$  and b-quark multiplicity in pp collisions at 8 TeV. CMS Collaboration (Serguei Chatrchyan, ..., M.Kaya, ... et al.). Mar 12, 2013. 43 pp. Published in Eur.Phys.J. C73 (2013) 2568.
25. Search for the standard model Higgs boson produced in association with a top-quark pair in pp collisions at the LHC. CMS Collaboration (Serguei Chatrchyan, ..., M.Kaya, ... et al.). Mar 4, 2013. 44 pp. Published in JHEP 1305 (2013) 145.
26. Measurement of the  $X(3872)$  production cross section via decays to  $J/\psi \pi \pi$  in pp collisions at  $\sqrt{s} = 7$  TeV. CMS Collaboration (Serguei Chatrchyan, ..., M.Kaya, ... et al.). Feb 16, 2013. 33 pp. Published in JHEP 1304 (2013) 154.
27. Search for a Higgs boson decaying into a b-quark pair and produced in association with b quarks in proton-proton collisions at 7 TeV. CMS Collaboration (Serguei Chatrchyan, ..., M.Kaya, ... et al.). Feb 12, 2013. 35 pp. Published in Phys.Lett. B722 (2013) 207-232.
28. Search for new physics in final states with a lepton and missing transverse energy in pp collisions at the LHC. CMS Collaboration (Serguei Chatrchyan, ..., M.Kaya, ... et al.). Feb 12, 2013. 25 pp. Published in Phys.Rev. D87 (2013) 072005.
29. Study of the underlying event at forward rapidity in pp collisions at  $\sqrt{s} = 0.9, 2.76,$  and 7 TeV. CMS Collaboration (Serguei Chatrchyan, ..., M.Kaya, ... et al.). Feb 10, 2013. 31 pp. Published in JHEP 1304 (2013) 072.

30. Searches for Higgs bosons in pp collisions at  $\sqrt{s} = 7$  and 8 TeV in the context of four-generation and fermiophobic models. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Feb 7, 2013. 33 pp. Published in Phys.Lett. B725 (2013) 36-59.
31. Search for pair-produced dijet resonances in four-jet final states in pp collisions at  $\sqrt{s} = 7$  TeV. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Feb 3, 2013. 23 pp. Published in Phys.Rev.Lett. 110 (2013) 141802.
32. Measurement of the  $t\bar{t}$  production cross section in the all-jet final state in pp collisions at  $\sqrt{s} = 7$  TeV . CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Feb 3, 2013. 29 pp. Published in JHEP 1305 (2013) 065.
33. Measurement of the top-antitop production cross section in the tau+jets channel in pp collisions at  $\sqrt{s} = 7$  TeV. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Jan 24, 2013. 25 pp. Published in Eur.Phys.J. C73 (2013) 2386.
34. Search for contact interactions using the inclusive jet pT spectrum in pp collisions at  $\sqrt{s}=7$  TeV. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Jan 21, 2013. 29 pp. Published in Phys.Rev. D87 (2013) 052017.
35. Measurement of W+W- and ZZ production cross sections in pp collisions at  $\sqrt{s} = 8$  TeV. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Jan 20, 2013. 29 pp. Published in Phys.Lett. B721 (2013) 190-211.
36. Search for physics beyond the standard model in events with  $\tau$  leptons, jets, and large transverse momentum imbalance in pp collisions at  $\sqrt{s} = 7$  TeV. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Jan 2013. 39 pp. Published in Eur.Phys.J. C73 (2013) 2493.
37. Event shapes and azimuthal correlations in Z + jets events in pp collisions at  $\sqrt{s}=7$  TeV. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Jan 2013. 33 pp. Published in Phys.Lett. B722 (2013) 238-261.
38. Search for supersymmetry in events with opposite-sign dileptons and missing transverse energy using an artificial neural network. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Jan 2013. 33 pp. Published in Phys.Rev. D87 (2013) 072001.
39. Search for supersymmetry in pp collisions at  $\sqrt{s}=7$  TeV in events with a single lepton, jets, and missing transverse momentum. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Dec 2012. 57 pp. Published in Eur.Phys.J. C73 (2013) 2404.
40. Study of the Mass and Spin-Parity of the Higgs Boson Candidate Via Its Decays to Z Boson Pairs. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Dec 2012. 23 pp. Published in Phys.Rev.Lett. 110 (2013) 081803.
41. Measurements of differential jet cross sections in proton-proton collisions at  $\sqrt{s}=7$  TeV with the CMS detector. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Dec 2012. 33 pp. Published in Phys.Rev. D87 (2013) 112002.
42. Measurement of the  $t\bar{t}$  production cross section in pp collisions at  $\sqrt{s}=7$  TeV with lepton + jets final states. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Dec 2012. 29 pp. Published in Phys.Lett. B720 (2013) 83-104.
43. Inclusive search for supersymmetry using the razor variables in pp collisions at  $\sqrt{s}=7$  TeV. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Dec 2012. 29 pp. Published in Phys.Rev.Lett. 111 (2013) 081802.
44. Search for new physics in events with same-sign dileptons and b jets in pp collisions at  $\sqrt{s}=8$  TeV. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Dec 2012. 29 pp. Published in JHEP 1303 (2013) 037, Erratum-ibid. 1307 (2013) 041.
45. Search for heavy narrow dilepton resonances in pp collisions at  $\sqrt{s}=7$  TeV and  $\sqrt{s}=8$  TeV. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Dec 2012. 27 pp. Published in Phys.Lett. B720 (2013) 63-82.
46. Search for contact interactions in  $\mu+\mu-$  events in pp collisions at  $\sqrt{s}=7$  TeV. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Dec 2012. 19 pp. Published in Phys.Rev. D87 (2013) 3, 032001.
47. Search for heavy resonances in the W/Z-tagged dijet mass spectrum in pp collisions at 7 TeV. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Dec 2012. 29 pp. Published in Phys.Lett. B723 (2013) 280-301.
48. Search for long-lived particles decaying to photons and missing energy in proton-proton collisions at  $\sqrt{s}=7$  TeV. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Dec 2012. 29 pp. Published in Phys.Lett. B722 (2013) 273-294.
49. Search for exotic resonances decaying into WZ/ZZ in pp collisions at  $\sqrt{s}=7$  TeV . CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Nov 2012. 39 pp. Published in JHEP 1302 (2013) 036.
50. Measurement of the ZZ production cross section and search for anomalous couplings in  $2l2l'$  final states in pp collisions at  $\sqrt{s}=7$  TeV. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Nov 2012. 29 pp. Published in JHEP 1301 (2013) 063.

51. Search for new physics in events with photons, jets, and missing transverse energy in pp collisions at  $\sqrt{s}=7$  TeV. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Nov 2012. 49 pp. Published in JHEP 1303 (2013) 111.
52. Identification of b-quark jets with the CMS experiment. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Nov 2012. 69 pp. Published in JINST 8 (2013) P04013.
53. Search for Z ' resonances decaying to  $t\bar{t}$  in dilepton+jets final states in pp collisions at  $\sqrt{s}=7$  TeV. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Nov 2012. 27 pp. Published in Phys.Rev. D87 (2013) 072002.
54. Search for supersymmetry in final states with a single lepton, b-quark jets, and missing transverse energy in proton-proton collisions at  $\sqrt{s}=7$  TeV. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Nov 2012. 28 pp. Published in Phys.Rev. D87 (2013) 5, 052006.
55. Search in leptonic channels for heavy resonances decaying to long-lived neutral particles. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Nov 2012. 31 pp. Published in JHEP 1302 (2013) 085.
56. Electron-muon identification by atmospheric shower in a new concept of an EAS detector. M. Iori (Rome U.), E. Arslan, H. Denizli (Abant Izzet Baysal U.), M. Kaya (Kafkas U.), A. Yilmaz (Abant Izzet Baysal U.), J. Russ (Carnegie Mellon U.). 2012. 3 pp. Published in Nucl.Instrum.Meth. A692 (2012) 285-287
57. Measurement of differential top-quark pair production cross sections in pp collisions at  $\sqrt{s}=7$  TeV. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Nov 2012. 47 pp. Published in Eur.Phys.J. C73 (2013) 2339.
58. Search for supersymmetry in final states with missing transverse energy and 0, 1, 2, or at least 3 b-quark jets in 7 TeV pp collisions using the variable  $\alpha_T$ . CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Oct 2012. 39 pp. Published in JHEP 1301 (2013) 077.
59. Search for a non-standard-model Higgs boson decaying to a pair of new light bosons in four-muon final states. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Oct 2012. 31 pp. Published in Phys.Lett. B726 (2013) 564-586.
60. Measurement of the sum of WW and WZ production with W+dijet events in pp collisions at  $\sqrt{s}=7$  TeV. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Oct 2012. Published in Eur.Phys.J. C73 (2013) 2283.
61. Search for heavy quarks decaying into a top quark and a W or Z boson using lepton + jets events in pp collisions at  $\sqrt{s} = 7$  TeV. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Oct 2012. Published in JHEP 1301 (2013) 154.
62. Measurement of the inelastic proton-proton cross section at  $\sqrt{s}=7$  TeV. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Oct 2012. 33 pp. Published in Phys.Lett. B722 (2013) 5-27.
63. Search for pair production of third-generation leptoquarks and top squarks in pp collisions at  $\sqrt{s}=7$  TeV. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Oct 2012. Published in Phys.Rev.Lett. 110 (2013) 081801.
64. Search for third-generation leptoquarks and scalar bottom quarks in pp collisions at  $\sqrt{s}=7$  TeV. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Oct 2012. 39 pp. Published in JHEP 1212 (2012) 055.
65. Observation of long-range near-side angular correlations in proton-lead collisions at the LHC. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Oct 2012. Published in Phys.Lett. B718 (2013) 795-814.
66. Observation of Z decays to four leptons with the CMS detector at the LHC. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Oct 2012. 27 pp. Published in JHEP 1212 (2012) 034.
67. Search for excited leptons in pp collisions at  $\sqrt{s}=7$  TeV. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Oct 2012. Published in Phys.Lett. B720 (2013) 309-329.
68. Search for heavy neutrinos and W[R] bosons with right-handed couplings in a left-right symmetric model in pp collisions at  $\sqrt{s} = 7$  TeV. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Oct 2012. Published in Phys.Rev.Lett. 109 (2012) 261802.
69. Search for narrow resonances and quantum black holes in inclusive and b-tagged dijet mass spectra from pp collisions at  $\sqrt{s}=7$  TeV. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Oct 2012. Published in JHEP 1301 (2013) 013.
70. Search for fractionally charged particles in pp collisions at  $\sqrt{s}=7$  TeV. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Oct 2012. Published in Phys.Rev. D87 (2013) 092008.
71. Search for supersymmetry in events with photons and low missing transverse energy in pp collisions at  $\sqrt{s}=7$  TeV. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Oct 2012. Published in Phys.Lett. B719 (2013) 42-61.

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73. Measurement of the relative prompt production rate of  $\chi(c2)$  and  $\chi(c1)$  in pp collisions at  $\sqrt{s}=7$  TeV. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Oct 2012. 33 pp. Published in Eur.Phys.J. C72 (2012) 2251.
74. Search for anomalous production of highly boosted Z bosons decaying to dimuons in pp collisions at  $\sqrt{s}=7$  TeV. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Oct 2012. 31 pp. Published in Phys.Lett. B722 (2013) 28-47.
75. Search for electroweak production of charginos and neutralinos using leptonic final states in pp collisions at  $\sqrt{s}=7$  TeV. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Sep 2012. 45 pp. Published in JHEP 1211 (2012) 147.
76. Measurement of the single-top-quark t-channel cross section in pp collisions at  $\sqrt{s}=7$  TeV. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Sep 2012. 41 pp. Published in JHEP 1212 (2012) 035.
77. Search for resonant  $t\bar{t}$  production in lepton+jets events in pp collisions at  $\sqrt{s}=7$  TeV. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Sep 2012. 37 pp. Published in JHEP 1212 (2012) 015.
78. Search for the standard model Higgs boson produced in association with W and Z bosons in pp collisions at  $\sqrt{s}=7$  TeV. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Sep 2012. 33 pp. Published in JHEP 1211 (2012) 088.
79. Search for a narrow spin-2 resonance decaying to a pair of Z vector bosons in the semileptonic final state. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Sep 2012. 31 pp. Published in Phys.Lett. B718 (2013) 1208-1228.
80. Evidence for associated production of a single top quark and W boson in pp collisions at  $\sqrt{s} = 7$  TeV. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Sep 2012. Published in Phys.Rev.Lett. 110 (2013) 022003.
81. Measurement of the Y1S, Y2S and Y3S polarizations in pp collisions at  $\sqrt{s}=7$  TeV. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Sep 2012. Published in Phys.Rev.Lett. 110 (2013) 081802.
82. Measurement of the top-quark mass in  $t\bar{t}$  events with dilepton final states in pp collisions at  $\sqrt{s}=7$  TeV. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Sep 2012. 31 pp. Published in Eur.Phys.J. C72 (2012) 2202.
83. Measurement of the top-quark mass in  $t\bar{t}$  events with lepton+jets final states in pp collisions at  $\sqrt{s}=7$  TeV. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Sep 2012. 33 pp. Published in JHEP 1212 (2012) 105.
84. Observation of a diffractive contribution to dijet production in proton-proton collisions at  $\sqrt{s}=7$  TeV. CMS Collaboration (Serguei Chatrchyan ,...,M.Kaya,... et al.). Sep 2012. 35 pp. Published in Phys.Rev. D87 (2013) 012006.
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#### 4.2.2 CMS Analiz Notları

Not:Bu Notlara CERN-CMS kolaborasyonuna ait kişiler sadece ulaşabilir.

1. CMS AN-2013/039 -- Measurement of the ratio between the inclusive jet cross section with anti-kT algorithm and radius parameters  $R=0.5$  and  $R=0.7$  at  $\sqrt{s} = 7$  TeV. Authors: Mikko Voutilainen, Maxime Gouzevitch, Konstantinos Kousouris, Mithat Kaya, Ozlem Kaya, Mikael Kuusela, Sanmay Ganguly, Klaus Rabbertz, Hannes Jung, Samantha Dooling. Working Group: SMP
2. CMS AN-2012/223 -- Measurement Of Inclusive Jet Cross Section At  $\sqrt{s} = 8$  TeV Authors: S. Ganguly, M. Guchait, M. Kaya, O. Kaya, K. Kousouris, K. Rabbertz, S. Girgis, I. Hos. Working Group: SMP
3. CMS DN-2012/008 -- Tests of CMS HF Readout Box Prototype. Authors: U.Akgun, E. A. Albayrak, B. Bilki, W. Clarida, G. Funk, Z. Jia, P. Debbins, A. Mestvirishvili, M. Miller, A. Moeller, J. Neuhaus, Y. Onel, I. Schmidt, S. Sen, E. Tiras, J. Wetzel, T. Yetkin D. Winn S. Los, T. Shaw, J. Whitmore A. Adiguzel, N. Bakirci, S. Cerci, S. Girgis, I. Hos, T. Karaman, P. Kurt, K. Ozdemir, K. Sogut, B. Tali, H. Topakli, D. Uzun, C. Zorbilmez A. M. Guler, K. Ocalan, E. Yildirim S. Durgut, E. Gulmez, B. Isildak, M. Kaya, O. Kaya, Y. Oz, S. Tekten K. Cankocak, F. O. Oztirpan, B. Untunc R. Birnbaum, H. Gerling-Dunsmore, N. Mandell, M.C. Roche M. Garcia, S. Lewin, L. Necib, D. Shaffer. Sub Detector: HCAL
4. CMS AN-2012/128 -- Inclusive Jet Cross section measurement at 8 TeV energy in CMS. Authors: D.S. Cerci, S. Cerci, S. Ganguly, S. Gargis, M. Guchait, I. Hos, M. Kaya, O. Kaya, K. Kousouris, K. Rabbertz. Working Group: QCD
5. CMS AN-2011/279 -- Measurement of inclusive b-jet cross section in pp collisions at 7 TeV. Authors: Mikko Voutilainen, Francesco Pandolfi, Niki Saoulidou, Philipp Schieferdecker, Hauke Held, Jyothsna Komaragiri, Daniel Martschei, Simon Honc, Thomas Muller, Michael Feindt, Simon de Visscher, Matthew Chadwick, Andrea Rizzi, Wolfgang Agam, Mithat Kaya, Ozlem Kaya
6. CMS AN-2011/105 -- Absolute jet energy correction and its uncertainty with 36/pb. Authors: Mikko Voutilainen, Francesco Pandolfi, Danilo Piparo, Thomas Hauth, Joram Berger, Guenther Quast, Philipp Schieferdecker, Kalanand Mishra, Sinjini Sengupta, Ricardo Eusebi, Mithat Kaya, Ozlem Kaya, Ia Iashvili, Supriya Jain
7. CMS AN-2010/304 -- Absolute jet energy correction uncertainty. Authors: Mikko Voutilainen, Francesco Pandolfi, Daniele del Re, Sinjini Sengupta, Ricardo Eusebi, Mithat Kaya, Ozlem Kaya, Philipp Schieferdecker
8. CMS AN-2010/128 -- Measurement of the inclusive jet and b-jet production in pp collisions at  $\sqrt{s}=7$  TeV using Particle Flow. Authors: Mikko Voutilainen, Francesco Pandolfi, Niki Saoulidou, Philipp Schieferdecker, Hauke Held, Jyotshna Komaragiri, Daniel Martschei, Simon Honc, Simon de Visscher, Matthew Chadwick, Andrea Rizzi, Wolfgang Adam, Mithat Kaya, Ozlem Kaya.
9. CMS AN-2011/462 -- Inclusive Jet pT Spectrum with Particle Flow Jets at 7 TeV. Authors: Konstantinos Kousouris, Bora Isildak, Klaus Rabbertz Ozlem Kaya, Mithat Kaya, Sanmay Ganguly, Monoranjan Guchait, Mikko Voutilainen, Gobinda Majumder, Sunanda Banerjee
10. CMS AN-2010/439 -- Measurement of the Inclusive Jet Cross-Section in pp Collisions at 7 TeV. Authors: P. Bhat, R. Cavanaugh, D. Duggan, J. Haas, A. Heister, H. Held, M. Kaya, O. Kaya, O. Kodolova, Ph. Lawson, L. Lebolo, A.-M. Magnan, D. Mason, A. Nikitenko, A. Oehler, F. Pandolfi, H. Prosper, K. Rabbertz, K. Rose, N. Saoulidou, Ph. Schieferdecker, F. Stober, M. Voutilainen, J. Weng
11. CMS DN-2009/011 -- Tests of CMS HF Candidate PMTs with Muons. Authors: U.Akgun, E. A. Albayrak, B. Bilki, K. Cankocak, W. Clarida, P. Debbins, A. Mestvirishvili, M. Miller, A. Moeller, J. Neuhaus, Y. Onel, F. Ozok, I. Schmidt, S. Sen, T. Yetkin E. Oslund, D. Winn L. Cremaldi, D. Sanders, P. Sonnek A. Adiguzel, N. Bakirci, S. Cerci, S. Girgis, T. Karaman, P. Kurt, K. Ozdemir, B. Tali, H. Topakli, D. Uzun A. M. Guler, K. Ocalan, E. Yildirim B. Isildak, M. Kaya, O. Kaya, M. Ozbek, K. Sevim. Sub Detector: HCAL
12. CMS CR-2009/209 -- Hadron and Very-Forward Calorimetry in CMS. Authors: Mithat KAYA on behalf of CMS-HCAL collaboration Kafkas University, Kars, Turkey. Categories: HCAL



13. CMS IN-2008/019 -- HCAL participation in Global Run at the end of November 2007 (GREN). Authors: CMS HCAL Collaboration. Categories: HCAL
14. CMS NOTE-2008/010 -- Design, Performance, and Calibration of CMS Hadron Endcap Calorimeters. Authors: CMS HCAL Collaboration. Categories: CALORIMETRY HCAL
15. CMS IN-2008/010 -- Study of CMS HCAL response to muons using data collected during Global Run in September 2007 and Integration Run in October 2007. Authors: CMS HCAL Collaboration. Categories: HCAL

#### 4.2.3 Uluslararası Bilimsel Toplantılarda Sunulan ve Bildiri Kitabında (Proceedings) Basılan Makaleler

1. "SiPM application for a detector for UHE neutrinos tested at Sphinx Station", Prof. IORI, Maurizio, Mr. YILMAZ, Ali, Dr. FERRAROTTO, Fabio, Prof. RUSS, James, Prof. DENIZLI, Haluk, Dr. KAYA, Mithat, Mr. ATAKISI, Okan, RICAP-13 Roma International Conference on AstroParticle Physics Wednesday 22 May 2013 - Friday 24 May 2013 Physics Department, University "La Sapienza", Roma, Italy
2. "Test results of a new concept of an EAS detector for UHE neutrinos", M. Iori, J. Russ, H. Denizli, F. Ferrarotto, M. Kaya, A. Yilmaz. PROCEEDINGS OF THE 31st ICRC, ŁÓDŹ 2009
3. "Hadron and Very Forward Calorimetry in CMS" On Behalf of CMS-HCAL Collaboration (M. Kaya et al.) Isfahan, Iran. 2008
4. "Production Asymmetry of Charm Mesons," M. Kaya, Akhaltsikhe, Gürcistan, 2002.
5. "Ds Charm Meson Hadroproduction." By SELEX Collaboration (M. Kaya et al.). New Perspectives 2000, Fermilab, IL, Jun 28, 2000
6. "A beam hodoscope based on a scintillating-fiber array with multianode photomultiplier readout" D. Dreossi, M. Kaya et al. Nov 1997. Prepared for SCIF197: Conference on Scintillating and Fiber Detectors, South Bend, Indiana, 2-6 Nov 1997. Published in AIP Conf.Proc.450: 286-293, 1998.
7. "CMS Quartz fiber Calorimetry" By V. Gavrilov, Yu. Gershtein, V. Kolosov, S. Kuleshov, D. Litvintsev, A. Nikitin, V. Rusinov, V. Stolin, A. Ulyanov (Moscow, ITEP), E. Booth, R. Carey, S. Doulas, E. Hazen, O.C. Johnson, F. Krienen, J. Miller, D. Osborne, B.L. Roberts, J. Rohlf, A. Rosowsky, L. Sulak, J. Sullivan, W. Worstell (Boston U.), K. Arrington, C.P. Beetz, D. Kefford, V. Podrasky, C. Sanzeni, D. Winn (Fairfield U.), N. Akchurin, A. Braver, M. Kaya, J. Langland, J. McPherson, M. Miller, Y. Onel, E. Ozel, S. Ozkorucuklu, E. Ruth (Iowa State U.), O. Ganel, R. Wigmans (Texas Tech.). Jun 1996. Prepared for 6th International Conference on Calorimetry in High-energy Physics (ICCHEP 96), Rome, Italy, 8-14 Jun 1996. Published in \*Frascati 1996, Calorimetry in high energy physics\* 269-280

#### 4.2.4 Ulusal bilimsel toplantılarda sunulan bildirimler

1. "CMS Results From the Boğaziçi Institute" M.Kaya, İzmir Yüksek Enerji Fiziği Çalıştayı, IZYEF2013, 11-13 Eylül 2013, İzmir Yüksek Teknoloji Enstitüsü, İzmir
2. "Investigation and Calibration SiPM Gain For Outside Astroparticle detectors", O. Atakisi, M. Kaya, M. Iori. 30. Uluslararası Fizik Kongresi, 2-5 Eylül 2013, İstanbul Üniversitesi, İstanbul
3. "Kars Bölgesinde Ölçülen Kozmik isin Akı Yoğunluğu", M. Atakan, M. Kaya, O. Atakisi. 30. Uluslararası Fizik Kongresi, 2-5 Eylül 2013, İstanbul Üniversitesi, İstanbul
4. "Hf Detektörlerindeki Enerji Çözünürlüğü ve Lineerliği", M. Kaya., M. Ş. Bülbül, 22. Türk Fizik Kongresi Bildiri Kitabı, sf: 533, 14-17 Eylül 2004, Bodrum
5. "Detection of cosmic Rays Using a Scintillation detector at the sea level", A. Yıldız, M. Kaya, M. Iori. 24. Uluslararası Fizik Kongresi, sf: 671, 28-31 Ağustos 2007, Malatya

#### 4.3 Projeler

1. M.Kaya, M.Kaya, S.Tekten, E.Kurt, Kafkas Üniversitesi Bilimsel Araştırmalar Komisyonu Projesi, No:2011-FEF-07. (Yürütücü M.Kaya) Sintilatör Dedektörleri ile Müon Parçacıklarının Tesbit edilmesi.
2. Hızlandırıcı ve Parçacık Fiziğinde Bilgisayar uygulamaları okulu", 12-19 Şubat 2012, Kafkas Üniversitesi, Kars. TÜBİTAK Projesi, 2012 yürütücü.
3. CMS'de Jet Çifti ve Ağır İyon Çalışmaları-TAEK projesi 2009- Araştırmacı olarak

4. Test Işını Data Analizi ve Higgs parçacığı ile ilgili simülasyon çalışmaları, Tübitak Projesi, 106T458, 2007 yürütücü
5. CMS-HF Kalorimetresi ile Higgs Bosonunun Aranması. TUBİTAK projesi 2004-2009 Araştırmacı olarak
6. E781-SELEX DOE Projesi University of Iowa, (1994-2001), USA

#### 4.4 Yapılan Hakemlikler

1. Abant İzzet Baysal Üniversitesinde gerçekleştirilen BAP-2011.03.02.414 nolu Proje
2. Abant İzzet Baysal Üniversitesinde gerçekleştirilen BAP-2009.03.02.324 nolu Proje

#### 5 İDARİ GÖREVLER

Fen Bilimleri Enstitüsü Müdür Yardımcılığı	2006-2011
Fakülte Kurulu Üyeliği Kafkas Üniversitesi Fen Edebiyat Fakültesi	2007-2011
Fen Bilimleri Enstitü Kurulu Üyeliği	2006-2011
Fen Bilimleri Enstitü Yönetim Kurulu Üyeliği	2006-2011
Fakülte Kurulu Üyeliği Kafkas Üniversitesi Eğitim Fakültesi	2006-2011
Fakülte Yönetim Kurulu Üyeliği Kafkas Üniversitesi Eğitim Fakültesi	2006-2011
Fakülte Kurulu Üyeliği Fen Edebiyat Fakültesi	2012-
Fakülte Yönetim Kurulu Üyeliği Fen Edebiyat Fakültesi	2012-
Fakülte Yönetim Kurulu Üyeliği Mühendislik Fakültesi	2012-
Kafkas Üniversitesi senato üyesi	2012-

#### 6 BİLİMSEL KURULUŞLARA ÜYELİKLER

Türk Fizik Derneği

#### 7 LİSANS VE LİSANSÜSTÜ PROGRAMLARINDA VERDİĞİM DERSLER

Dersler	Teorik Ders saati	Uygulama Ders saati
Genel Fizik I ve II	4	2
Modern Fizik	4	
Nümerik Analiz	4	
Kuantum Fiziği I ve II	4	
Nükleer Fizik	4	
Bilgisayar I(işletim sistemleri)	4	
Bilgisayar Programlama (Fortran, C ve C++)	2	2
Mesleki İngilizce	2	
Dedektör Fiziğine Giriş	2	
Nükleer Fizik Lab.		2
Parçacık Fiziği (Yüksek Lisans)	3	
Dedektör Fiziği(Yüksek Lisans)	3	
İleri Kuantum Fiziği(Doktora)	3	
İleri Parçacık fiziği(Doktora)	3	