CENAP ŞAHABETTİN ÖZBEN

Öğrenim Bilgileri

01 Eylül 1993 - 01 Eylül 1998 (5 yıl 1 ay)
Doktora, Doktora, İSTANBUL TEKNİK ÜNİVERSİTESİ, TÜRKİYE
FEN BİLİMLERİ ENSTİTÜSÜ, FİZİK MÜHENDİSLİĞİ (DR)
Tez Başlığı: Nötron aktivasyon analizi yöntemi ile ince filmlerin kalınlık tayini
Tez Konusu: Bu çalışmada ince film kalınlıklarının ölçülmesinde nötron aktivasyon analizi yöntemi seçilmiş, Fizik bölümü ince filim laboratuvarında sol-jel yöntemi ile kaplanmış olan Ta2O5 ve vakum depozisyon tekniği ile elde edilmiş altın ve indiyum çok tabakalı metalik filmlerde nm mertebesindeki kalınlıklar belirlenmiştir. Filmlerin kalınlıklarının belirlenmesinde yöntem olarak filim ve alt tabaka malze melerinden üretilen radyoizotopların yayımladığı gama ışınlarının şiddetlerinin karşılaştırılması baz alınmış ve buradan alt tabaka kalınlığı ile yapılan bir oranlama ile filim kalınlığı tesbit edilmiştir.
Tarih: 1998

01 Eylül 1991 - 01 Eylül 1993 (2 yıl 1 ay)
Yüksek Lisans, Tezli Program, İSTANBUL TEKNİK ÜNİVERSİTESİ, TÜRKİYE
FEN BİLİMLERİ ENSTİTÜSÜ, FİZİK MÜHENDİSLİĞİ (YL) (TEZLİ)
Tez Başlığı: U235 / U238 izotopik oranının pasif gama ışını spektroskopisi ile tayini Tez Konusu: Bu çalışmada izotopik oranın belirlenmesinde, pasif gama spektroskopisi yöntemi seçilmiş ve elde edebildiğimiz bazı numunelerde bu oran belirlenmiştir. U235/U238 izotopik oranının belirlenmesinden önce, gerek dedektör gerekse sayım sisteminin performanslarını belirleyici bir seri ölçümler yapılmıştır. özellikle bunlar arasında dedektörün özelliklerini ve backgroundun etkisini belirleyen hususlar incelenmiştir. Ü235/U238 oranının belirlenmesi için U238 çekirdeklerinin sayısı, U238 'in alfa bozunması sonrasında meydana gelen Th234 'ün beta bozunması sonrasında gönderilen 63 keV ve 93 keV enerjilerdeki dubletler çözülerek örnek içinde ki ü238 çekirdeklerinin sayısı ise bu çekirdeğin alfa bozunmasını takiben gönderilen 186 keV gama ışınının şiddetinden gidilerek bulunmuştur. Ölçülen örneklerde U235/U238 izotopik oranı uranilnitrat ihtiva eden numune için %» 4.3, depleted uran ihtiva eden peletlerde ise % 0.6 değerleri bulunmuştur Tarih: 1993

01 Eylül 1984 - 01 Ocak 1989 (4 yıl 5 ay)
Lisans, Anadal/Normal Öğretim, İSTANBUL TEKNİK ÜNİVERSİTESİ, TÜRKİYE
FEN-EDEBİYAT FAKÜLTESİ, FİZİK MÜHENDİSLİĞİ BÖLÜMÜ
Tez Başlığı: Dört Kanallı Anaalizör
Tez Konusu: Nükleer spektroskopide kullanılan dört kanallı bir analizörün yapımının gerçekleştirilmesi
Tarih: 1989

Deneyim / İşyeri Bilgileri

01 Ocak 2010 - Şu Anda (13 yıl 3 ay) (Tam Zamanlı)
PROF. DR., PROF. DR., İSTANBUL TEKNİK ÜNİVERSİTESİ

01 Ocak 2004 - 01 Ocak 2010 (6 yıl 1 ay) (Tam Zamanlı) DOÇ. DR., DOÇ. DR., İSTANBUL TEKNİK ÜNİVERSİTESİ

01 Ocak 2002 - 01 Ocak 2004 (2 yıl 1 ay) (Tam Zamanlı)
DOKTORALI ÖĞRETİM ÜYESİ, DR. ÖĞR. ÜYESİ, UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

01 Ocak 1998 - 01 Ocak 2002 (4 yıl 1 ay) (Tam Zamanlı)
DOKTORA SONRASI ARAŞTIRMACI, DR., BROOKHAVEN NATIONAL LABORATORY, NEW YOK

Ar-Ge Yetkinlik

Kitaplar

D. A. DEMİR, İ. H. DURU, Z. AYDIN, Ö. F. DAYI, C. Ş. ÖZBEN, E. PESEN, N. ÜNAL, A. U. YILMAZER & M. A. ÇAKIR, Feynman Fizik Dersleri 1 Mekanik Işınım Isı, ISBN: 9786051713441: Alfa, Kitap.

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9786051713595: Alfa, Kitap.

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Makaleler

A. BAYRAK, M. YUCEL, E. B. YUCEL & C. S. OZBEN, A SEGMENTED NEUTRON DETECTOR BASED ON SILICON-PIN PHOTODIODES USING NEUTRON-PROTON CONVERTERS, NUCLEAR TECHNOLOGY & RADIATION PROTECTION, 2019, 14513994, 34, 2, 138-144.

M. YUCEL, A. BAYRAK, E. B. YUCEL & C. S. OZBEN, Simulations of Si-PIN photodiode based detectors for underground explosives enhanced by ammonium nitrate, NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, 2018, 0168-9002, 880, 152-157.

EMİRHAN, A. BAYRAK, E. B. YUCEL, M. YUCEL & C. S. OZBEN, A low cost X-rayimaging device based on BPW-34 Si-PIN photodiode, NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION A-ACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, 2016, 0168-9002, 819, 1-5.

V. ANASTASSOPOULOS, S. ANDRİANOV, R. BAARTMAN, S. BAESSLER, M. BAİ, J. BENANTE, M. BERZ, M. BLASKİEWİCZ, T. BOWCOCK, K. BROWN, B. CASEY, M. CONTE, J. D. CRNKOVİC, N. D'IMPERİO, G. FANOURAKİS, A. FEDOTOV, P.
FİERLİNGER, W. FİSCHER, M. O. GAİSSER, Y. GİOMATARİS, M. GROSSEPERDEKAMP, G. GUİDOBONİ, S. HACİOMEROGLU, G. HOFFSTAETTER, H. HUANG,
M. INCAGLİ, A. IVANOV, D. KAWALL, Y. I. KİM, B. KİNG, I. A. KOOP, D. M. LAZARUS, V. LEBEDEV, M. J. LEE, S. LEE, Y. H. LEE, A. LEHRACH, P. LENİSA, P. L. SANDRİ, A. U. LUCCİO, A. LYAPİN, W. MACKAY, R. MAİER, K. MAKİNO, N. MALİTSKY, W. J. MARCİANO, W. MENG, F. MEOT, E. M. METODİEV, L. MİCELİ, D. MORİCCİANİ, W. M. MORSE, S. NAGAİTSEV, S. K. NAYAK, Y. F. ORLOV, C. S. OZBEN, S. T. PARK, A. PESCE, E. PETRAKOU, P. PİLE, B. PODOBEDOV, V. POLYCHRONAKOS, J. PRETZ, V. PTİTSYN, E. RAMBERG, D. RAPARİA, F. RATHMANN, S. RESCİA, T. ROSER, H. K. SAYED, Y. K. SEMERTZİDİS, Y. SENİCHEV, A. SİDORİN, A. SİLENKO, N. SİMOS, A. STAHL, E. J. STEPHENSON, H. STROEHER, M. J. SYPHERS, J. TALMAN, R. M. TALMAN, V. TİSHCHENKO, C. TOURAMANİS, N. TSOUPAS, G. VENANZONİ, K. VETTER, S. VLASSİS, E. WON, G. ZAVATTİNİ, A. ZELENSKİ & K. ZİOUTAS, A storage ring experiment to detect a proton electric dipole moment, REVIEW OF SCIENTIFIC INSTRUMENTS, 2016, 0034-6748, 87, 11.

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E. BARLAS, A. BAYRAK, E. EMİRHAN, S. HACİOMEROGLU & C. S. OZBEN, Spatial distribution of Po-214 ions in the electrostatic collection, APPLIED RADIATION AND ISOTOPES, 2013, 0969-8043, 80, 23-26.

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COELLİ, P. J. COLEMAN-SMİTH, A. COLOMBO, S. COLOSİMO, C. COMMEAUX, D. CONVENTİ, R. J. COOPER, A. CORSİ, A. CORTESİ, L. COSTA, F. C. L. CRESPİ, J. R. CRESSWELL, D. M. CULLEN, D. CURİEN, A. CZERMAK, D. DELBOURG, R. DEPALO, T. DESCOMBES, P. DESESQUELLES, P. DETİSTOV, C. DİARRA, F. DİDİERJEAN, M. R. DİMMOCK, Q. T. DOAN, C. DOMİNGO-PARDO, M. DONCEL, F. DORANGEVİLLE, N. DOSME, Y. DROUEN, G. DUCHENE, B. DULNY, J. EBERTH, P. EDELBRUCK, J. EGEA, T. ENGERT, M. N. ERDURAN, S. ERTURK, C. FANİN, S. FANTİNEL, E. FARNEA, T. FAUL, M. FİLLİGER, F. FİLMER, C. FİNCK, G. D. FRANCE, A. GADEA, W. GAST, A. GERACİ, J. GERL, R. GERNHAEUSER, A. GİANNATİEMPO, A. GİAZ, L. GİBELİN, A. GİVECHEV, N. GOEL, V. GONZALEZ, A. GOTTARDO, X. GRAVE, J. GREBOSZ, R. GRİFFİTHS, A. N. GRİNT, P. GROS, L. GUEVARA, M. GULMİNİ, A. GOERGEN, H. T. M. HA, T. HABERMANN, L. J. HARKNESS, H. HARROCH, K. HAUSCHİLD, C. HE, A. HERNANDEZ-PRİETO, B. HERVİEU, H. HESS, T. HUEYUEK, E. INCE, R. ISOCRATE, G. JAWORSKİ, A. JOHNSON, J. JOLİE, P. JONES, B. JONSON, P. JOSHİ, D. S. JUDSON, A. JUNGCLAUS, M. KACİ, N. KARKOUR, M. KAROLAK, A. KASKAS, M. KEBBİRİ, R. S. KEMPLEY, A. KHAPLANOV, S. KLUPP, M. KOGİMTZİS, I. KOJOUHAROV, A. KORİCHİ, W. KORTEN, T. KROELL, R. KRUECKEN, N. KURZ, B. Y. KY, M. LABİCHE, X. LAFAY, L. LAVERGNE, I. H. LAZARUS, S. LEBOUTELİER, F. LEFEBVRE, E. LEGAY, L. LEGEARD, F. LELLİ, S. M. LENZİ, S. LEONİ, A. LERMİTAGE, D. LERSCH, J. LESKE, S. C. LETTS, S. LHENORET, R. M. LİEDER, D. LİNGET, J. LJUNGVALL, A. LOPEZ-MARTENS, A. LOTODE, S. LUNARDİ, A. MAJ, J. V. D. MAREL, Y. MARİETTE, N. MARGİNEAN, R. MARGİNEAN, G. MARON, A. R. MATHER, W. MECZYNSKİ, V. MENDEZ, P. MEDİNA, B. MELON, R. MENEGAZZO, D. MENGONİ, E. MERCHAN, L. MİHAİLESCU, C. MİCHELAGNOLİ, J. MİERZEJEWSKİ, L. MİLECHİNA, B. MİLLİON, K. MİTEV, P. MOLİNİ, D. MONTANARİ, S. MOON, F. MORBİDUCCİ, R. MORO, P. S. MORRALL, O. MOELLER, A. NANNİNİ, D. R. NAPOLİ, L. NELSON, M. NESPOLO, V. L. NGO, M. NİCOLETTO, R. NİCOLİNİ, Y. L. NOA, P. J. NOLAN, M. NORMAN, J. NYBERG, A. OBERTELLİ, A. OLARİU, R. ORLANDİ, D. C. OXLEY, C. OZBEN, M. OZİLLE, C. OZİOL, E. PACHOUD, M. PALACZ, J. PALİN, J. PANCİN, C. PARİSEL, P. PARİSET, G. PASCOVİCİ, R. PEGHİN, L. PELLEGRİ, A. PEREGO, S. PERRİER, M. PETCU, P. PETKOV, C. PETRACHE, E. PİERRE, N. PİETRALLA, S. PİETRİ, M. PİGNANELLİ, I. PİQUERAS, Z. PODOLYAK, P. L. POUHALEC, J. POUTHAS, D. PUGNERE, V. F. E. PUCKNELL, A. PULLİA, B. QUİNTANA, R. RAİNE, G. RAİNOVSKİ, L. RAMİNA, G. RAMPAZZO, G. L. RANA, M. REBESCHİNİ, F. RECCHİA, N. REDON, M. REESE, P. REİTER, P. H. REGAN, S. RİBOLDİ, M. RİCHER, M. RİGATO, S. RİGBY, G. RİPAMONTİ, A. P. ROBİNSON, J. ROBİN, J. ROCCAZ, J. -. ROPERT, B. ROSSE, C. R. ALVAREZ, D. ROSSO, B. RUBİO, D. RUDOLPH, F. SAİLLANT, E. SAHİN, F. SALOMON, M. -. SALSAC, J. SALT, G. SALVATO, J. SAMPSON, E. SANCHİS, C. SANTOS, H. SCHAFFNER, M. SCHLARB, D.
P. SCRAGGS, D. SEDDON, M. SENYİGİT, M. -. SİGWARD, G. SİMPSON, J. SİMPSON, M. SLEE, J. F. SMİTH, P. SONA, B. SOWİCKİ, P. SPOLAORE, C. STAHL, T. STANİOS, E. STEFANOVA, O. STEZOWSKİ, J. STRACHAN, G. SULİMAN, P. -. SODERSTROM, J. L. TAİN, S. TANGUY, S. TASHENOV, C. THEİSEN, J. THORNHİLL, F. TOMASİ, N. TONİOLO, R. TOUZERY, B. TRAVERS, A. TRİOSSİ, M. TRİPON, K. M. M. TUN-LANOE, M. TURCATO, C. UNSWORTH, C. A. UR, J. J. VALİENTE-DOBON, V. VANDONE, E. VARDACİ, R. VENTURELLİ, F. VERONESE, C. VEYSSİERE, E. VİSCİONE, R. WADSWORTH, P. M.

WALKER, N. WARR, C. WEBER, D. WEİSSHAAR, D. WELLS, O. WİELAND, A. WİENS, G. WİTTWER, H. J. WOLLERSHEİM, F. ZOCCA, N. V. ZAMFİR, M. ZİEBLİNSKİ & A. ZUCCHİATTİ, AGATA-Advanced GAmma Tracking Array,
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N. P. M. BRANTJES, V. DZORDZHADZE, R. GEBEL, F. GONNELLA, F. E. GRAY, D. J. V. D. HOEK, A. IMİG, W. L. KRUİTHOF, D. M. LAZARUS, A. LEHRACH, B. LORENTZ, R. MESSİ, D. MORİCCİANİ, W. M. MORSE, G. A. NOİD, C. J. G. ONDERWATER, C. S. OZBEN, D. PRASUHN, P. L. SANDRİ, Y. K. SEMERTZİDİS, M. D. S. e SİLVA, E. J. STEPHENSON, H. STOCKHORST, G. VENANZONİ & O. O. VERSOLATO, Correcting systematic errors in high-sensitivity deuteron polarization measurements, NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION AACCELERATORS SPECTROMETERS DETECTORS AND ASSOCIATED EQUIPMENT, 2012, 0168-9002, 664, 1, 49-64.

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