

## CURRICULUM VITAE

Altuğ Özpineci

---

### Personal details:

*Name :* **Altuğ Özpineci**

*Present Address:* Physics Department  
Middle East Technical University  
Inonu Bulvari, 06531, Ankara  
**Turkey**

*Tel.:* 0090 312 210 3257  
*Fax.:* 0090 312 210 5099  
*Date of Birth:* April 20, 1976

*Place of Birth:* Anamur, **Turkey**

*Nationality:* Turkish

### University Education :

Ph.D., 2001 High Energy Physics  
Middle East Technical University (1999-2001), Ankara, Turkey  
(Supervisor: Prof. Dr. M. Savcı, Co-supervisor: Prof. Dr. T. M. Aliev)  
Thesis Title: *Application of Light Cone QCD Sum Rules to Hadron Physics*

M. Sc, 1999 Condensed Matter Physics  
Bilkent University (98-99), Ankara, Turkey  
(Supervisor: Prof. Dr. S. Çıracı)  
Thesis Title: *"A Microscopic Approach to Phononic Energy Transfer in Nano Structures"*,

Sep.-Dec. 1997 Physics  
California Institute of Technology, LA, USA

B.Sc., 1997 Physics  
Middle East Technical University (94-97) (CGPA=4.00/4.00, First Rank)

B.Sc., 1997 Mathematics (Double Major)  
Middle East Technical University (94-97) (CGPA=4.00/4.00, First Rank)

High School Tarsus American School (88-94) (Third Rank)

### Fields of Research Interest:

Light Cone QCD Sum Rules, Rare B-meson Decays, Standard Model (SM) and beyond, CP violation, Charm Mesons, Octet and Decuplet Baryons, Chiral Dynamics

## Research/Teaching Experience:

- 1996-1997 : Worked with T. M. Aliev and M. Savcı on rare B-meson decays in Middle East Technical University
- September 1997 - December 1997 : Worked as a teaching assistant in California Institute of Technology, LA, USA.
- January 1998 - September 1999 : Worked as a research assistant in Bilkent University and, with S. Çıracı, studied energy transfer mechanisms in nano structures for an MS degree.
- September 1999 - September 2001 : Worked as a research assistant in Middle East Technical University and under the supervision of T. M. Aliev and M. Savcı obtained my Ph.D. degree.
- September 2001 - August 2004 : Post Doc. at ICTP, Trieste, Italy.
- August 2005-July 2005: Post Doc. at INFN, Sezione di Bari, Italy.
- July 2005-October 2010: Associate Professor at Middle East Technical University.
- Present Position: Professor in Middle East Technical University

## Courses Lectures

- Phys 113-4 "General Physics," 1<sup>st</sup> year undergraduate course
- Phys 334 "Electromagnetic Theory"
- Phys 430 "Statistical Thermodynamics," 4<sup>th</sup> year undergraduate course
- Phys 736 "Effective Field Theories in HEP," Graduate course
- Phys 545-6 "Particle Physics I-II," Graduate course

## Thesis Supervised

- August 2002 : Supervised Diploma Thesis at ICTP entitled "CP Violation and the Polarization Asymmetries," by Thuan, Nguyen Thi Thoa
- Masters Thesis, "Study of the Structure of the  $D_{sJ}(2317)$  and  $D_{sJ}(2460)$  Using QCD Sum Rules," by Aydemir, Ufuk, July 2007
- Masters Thesis, "Weak Decays of  $D_{sJ}(2317)$  and  $D_{sJ}(2460)$  in Light Cone QCD Sum Rules," by Tandogan, Asli, July 2007
- Masters Thesis, " $\eta$ - $\eta'$  Mixing in Chiral Perturbation Theory," by Ahmet Kokulu, September 2008
- PhD Thesis, "Properties of Light and Heavy Baryons in Light Cone QCD Sum Rules Formalism," by Azizi, Kazem, March 2009

## Symposia/Conferences attended:

1. "Summer School on QFT", June-July 1996, Bilkent University, Ankara, Turkey, Lecturer: D. V. Shirkov
2. "Quantum Mesoscopic Phenomena and Mesoscopic Devices in Microelectronics", NATO-Advanced Study Institute, Ankara/Antalya, Bilkent University, June 1999 (Title of the poster: "Density Matrix Approach to Phononic Energy Transfer")
3. "Summer School on Astroparticle Physics and Cosmology," June 2000, ICTP, Trieste, Italy
4. "Physics Beyond Four Dimension," July 2000, ICTP, Trieste, Italy
5. "Workshop on B Physics and CP Violation", September 2000, Ankara University, Ankara (speaker, Title of the Talk: "Light Cone QCD Sum Rules and the Magnetic Moment of Decuplet Baryons", presented in Turkish)
6. "Exclusive B Decays", July 2001, Regensburg, Germany
7. "Baryon Structure Probed with Quasistatic Electromagnetic Fields", April 2002, Trento, Italy (speaker, Title of the Talk: "Magnetic moments of  $\Delta$  baryons in light cone QCD sum rules")
8. "41st Internationale Universitaetswochen Fuer Theoretische Physik: Flavor Physics (IUTP 41)", Feb 2003, Schladming, Styria, Austria (speaker, Title of the Talk: "Semileptonic  $B \rightarrow \eta \ell \nu$  decay in light cone QCD")
9. "X International Seminar: Electromagnetic Interactions of Nuclei at Low and Medium Energies," April 2003, Moscow, Russia, (speaker, Title of the Talk: "Baryon magnetic moments within QCD light cone sum rules.")
10. "Turkish Physical Society: 22nd Physics Congress", September 2004, Bodrum, Turkey (speaker, Title of the Talk: "Light Cone QCD Sum Rules and the Multipole Moments of the Octet and Decuplet Baryons")
11. "QCD@Work 2005 International Workshop on Quantum Chromodynamics: Theory and Experiment", Conversano, Bari, Italy (speaker, Title of the Talk: "Radiative Decays of Charmed Mesons")
12. "XXXIII International Conference on High Energy Physics (ICHEP'06)," July 2006, Moscow, Russia
13. "QCD@Work 2007 International Workshop on Quantum Chromodynamics: Theory and Experiment," June 2007, Martina Franca, Italy (speaker; title: "Strong Coupling Constants of the Octet Baryons to Kaons and Pions")
14. "International Summer School and Conference on High Energy Physics: Standard Model and Beyond," September 2007, Akyaka, Mugla, Turkey (speaker; title: " $D_{sJ}$  Mesons: Puzzles and Possible Answers")
15. "Ankara YEF Günleri," May 2009, Ankara, Turkey, (speaker; title: "Meson-Baryon Coupling Constants, Symmetris and QCD Sum Rules")

16. "XXIV International Symposium on Lepton-Photon Interactions at High Energies," August 2009, (poster title: "Meson-Baryon Couplings,  $SU(3)$  symmetry and QCD Sum Rules;)
17. "Chiral'10," June 2010, Valencia, Spain, (speaker; title: "A QCD Sum Rules Approach to Mixing of Hadrons")

### Conference/School Organizations

1. Scientific Secretary of "Summer School on Particle Physics," July 2003, ICTP, Trieste, Italy,
2. Organizer of "International Workshop on Physics Beyond the Standard Model," September 2005, Mugla, Turkey
3. Organizer of "EMS Summer School: Arithmetic and Geometry Around Quantization," July 2006, Istanbul, Turkey
4. Organizer of "Ankara YEF Günleri," 12 January 2007, Ankara, Turkey
5. Organizer of "Feza Gürsey Enstitüsü Yüksek Enerji Fiziği Yaz Okulu," 25 July-3 August 2007, Istanbul, Turkey
6. Organizer of "International Conference on Hadron Physics (TROIA'07)," September 2007, Canakkale, Turkey
7. Organizer of "IARS-Feza Gürsey Enstitüsü Yüksek Enerji Fiziği Yaz Okulu," July 2009, İstanbul, Turkey
8. Organizer of " $II^{nd}$  International Conference on Hadron Physics (TROIA'09)," September 2009

### Projects

- "Study of the Radiative and Strong Transitions of the Octet and Decuplet Baryons within and Among the Multiplets," TUBITAK Project no: 106T333, Project leader
- Spokesperson for Turkey in the QCDNet Network of the FP7 Infrastructure project named: "Study of Strongly Interacting Matter"