

## CURRICULUM VITAE

**Name:** Dr. Székely Péter

**Born:** 22nd of January, 1970, Hungary

**General Certificate of Education:** High School at Tiszaújváros, 1988

**Previous workplace:** Nuclear Power Plant at Paks (1988-1994)

**University studies:** University of Szeged, from 1999

major in astronomy

PhD student in Astrophysics 2004-2007

PhD in Physics, January 29th, 2010.

Title of the dissertation: "Determination of the physical parameters of stars, star clusters and minor planets by spectrophotometric methods"

**Presently:** associate professor at Department of Experimental Physics, SZTE TTIK, head of department from 01.07.2020

Habilitation: 28.09.2017, (scientific lecture: Multi-object spectroscopy of globular clusters, teaching lecture: Asteroids in the Solar System)

**Command of languages:** English - intermediate, German - basic

### **Scientific field:**

- astrophysics in laboratory
- developing FLASH codes
- running astrophysical simulations on supercomputers
- spectroscopy of variable stars
- photometry of globular clusters with Different Image Analysis
- developing PSF photometry pipeline
- researching of minor objects in the Solar system
- photometric examinations of main-belt asteroids
- modelling minor planets
- observing comets
- observing eclipsing binary variable stars, search for  $\delta$  Scuti components
- observing pulsating variable stars
- programming in C, skills in HTML, shell-scripts, IRAF,  $\LaTeX$
- CCD applications and maintenance of astronomical instruments
- multi-object spectroscopy of globular clusters

### **Places of field work:**

- Observatory of Szeged (from 2000)
- Observatory of Hungarian Scientific Academy Konkoly-Thege Miklós Astronomical Research Institute at Piskéstető, Hungary (from 2000)
- Observatory of Instituto de Astrofísica de Andalucía at Sierra Nevada (from 2002)
- Astronomical Observatory of Padua, Asiago (from 2003)

– Siding Spring Observatory, Australia (from 2003)

### **Scholarships, rewards:**

- Young Scientists' Conference at University of Szeged (TDK), first place in Physics Section (2002)
- National Young Scientists' Conference (OTDK), second place in Earth Sciences and Mathematics Section, Astronomy I. (Planetary Systems) subsection (2003)
- Scholarship of the Hungarian Republic (2003-2004, 2 semester)
- Pro Renovanda Cultura Hungariae DT 2003/19
- SZTE TTK Excellent Student, 2004
- Hungarian State Eötvös Scholarship, 2006, 4 months stay in Australia
- University of Szeged "Golden Chalk" prize: 2013, 2018

### **Publications:**

- English language refereed papers: 52
- English language conference proceedings: 7
- English language popularizing papers: 1
- Hungarian language popularizing papers: 6
- totalized impact factors: approx. 90.5
- summarized all/independent citations: approx. 774/583

### **Conferences, scientific travels:**

- Meeting on Asteroids and Comets in Europe, May, 17-19, 2002, Visnjan, Croatia
- University of Sydney, School of Physics, July-September, 2003, Australia
- University of Sydney, School of Physics, September-November, 2004, Australia
- Stellar pulsation and evolution June 19-24, 2005, Villa Mondragone, Monte Porzio Catone, Italy
- PhD Conference on Astrophysics of Variable Stars, September 5-10, 2005, PTE, Pécs, Hungary
- FIKUT IV. (Young Astronomers and Astrophysicist's Meeting), 2006, Budapest, January 11-13.
- Henry Wood Winter School (for PhD-students), 2006. June 29-July 1., Batesman Bay, Australia
- ASA conference (Astronomical Society of Australia), 2006. July 2-6., Canberra, Australia
- British-Hungarian-French N+N+N Workshop for Young Researchers, 2007, Budapest, January 15-17.

## Teaching activities:

Novelties in Astronomy (all students)  
Measurements in physics (physics BSc)  
Digital laboratory (for students of physics BSc, molecular bionics, etc.)  
Electronics laboratory (for students of physics BSc, molecular bionics, etc.)  
Astronomy, lectures (for students of physics BSc)  
Astronomical instrumentation I., lectures (for students of astronomy)  
Astronomical instrumentation II., practice (for students of astronomy)  
Astronomical seminar I., practice (for students of astronomy)  
Astronomical seminar II., practice (for students of astronomy)  
Astronomy laboratory I., (for students of astronomy, physics BSc)  
Astronomy laboratory II., (for students of astronomy, physics BSc)  
Introduction to astronomy I., practice (for students of astronomy, physics BSc)  
Introduction to astronomy II., practice (for students of astronomy, physics BSc)  
Astronomical observations, practice (for students of astronomy, physics BSc)  
Informatics in astronomy, practice (for students of astronomy, physics BSc)  
Informatics in physics, practice (for students of astronomy, physics BSc)  
Physics laboratory, practice (for students of pharmaceuticals)  
Electricity, practice (for students of chemistry-physics)  
Physics for engineers II, practice (for students of engineering)

## Other activities:

- member of Hungarian Astronomical Association (HAA) (from 1997)
- leader of the local faction of HAA at Szeged (2003-2010)
- leader of the Deep Sky Section of the HAA (2005-2008)
- demonstrator of Department of Experimental Physics, SZTE University (2002-2004)
- regular telescopic presentations, lectures at the Observatory of Szeged
- astronomical youth club, SZTE Ságvári E. High School, Szeged
- regular author at "hirek.csillagaszat.hu" internet news portal
- vetting astronomical books
- member of Eötvös Loránd Physics Society (from 2007)
- member of International Astronomical Union (from 2010)

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