

Tiziano Valentinuzzi

Personal info

- Birth Date: July 2, 1972
- Birth Place: Palmanova (UD) - Italy
- Address: via IV Novembre, 14 - 36020 Albettono (VI) - Italy

Instruction

1994 - 2002 University of Padova

Astronomy Degree

- 18 March 2003 - Doctor in Astronomy (104/110).

27 April 2007

Università degli studi di Padova

PhD in Astronomy

Military Service

Partial discharge (1 year assistance to children with handicap)

Scientific Referred Papers

- **Valentinuzzi, T. et al (2010)**, "Superdense massive galaxies in the ESO Distant Cluster Survey (*EDisCS*)", *ApJL*, *submitted*.
- **Fasano, G. et al (2010)**, "The shapes of BCGs and normal ellipticals in nearby clusters", *MNRAS*, 404, 1490F.
- **Vulcani, B. et al (2010)**, "Galaxy stellar mass functions of different morphological types, and their evolution between $z=0.8$ and $z=0$ ", *MNRAS*, *submitted*.
- **Fasano, G. et al (2010)**, "The shapes of BCGs and normal ellipticals in nearby clusters", *MNRAS*, 404, 1490F.
- **Valentinuzzi, T. et al (2010)**, "Superdense Massive Galaxies in WINGS Clusters", *ApJ*, 712, 226.
- **Valentinuzzi, T. et al (2009)**, "WINGS III – Deep near-infrared photometry of 28 nearby clusters.", *A&A*, 501, 851.
- **Poggianti, B.M. et al (2009)**, "The Evolution of Spirals, S0 and Elliptical galaxies in Clusters", *ApJL*, 697, 137.
- **Varela, J., et al. (2009)**, "WINGS II – Deep optical photometry of 77 nearby clusters.", *A&A*, 497, 667.
- **Cava A., et al. (2009)**, "WINGS-SPE Spectroscopy in the Wide-field Nearby Galaxy-cluster Survey.", *A&A*, 495, 707.
- **Caimmi R., Valentinuzzi T. (2008)**, "The fractional virial potential energy in two-component systems.", *SerAJ*, 177, 15.
- **Valentinuzzi T. (2006)**, "Models of Clausius Virial Maximum Energy and the Fundamental Plane of Elliptical Galaxies", PhD Thesis, Università di Padova, 2006.

- **D'Onofrio M., Valentinuzzi T., Secco L., Caimmi R., Bindoni D. (2006)**, "*Toward Understanding the origin of the Fundamental Plane of Early Type Galaxies*", *New Astronomy Reviews*, 50,447.
- **Caimmi R., Marmo C., Valentinuzzi T. (2005)**, "*A numerical fit of analytical to simulated density profiles in dark matter haloes*", *SerbAJ*, 170, 13.
- **Valentinuzzi T. (2003)**, "*The Fundamental Plane of elliptical Galaxies*", Master Thesis.
- **Tomov T. et al. (1996)**, "*Monitoring MWC 560=V694 Monocerotis in 1990-1995. Conventional and high-speed UBV photometry*", *A&A*, 116, 1T.
- **Munari U. et al. (1993)**, "*BV Photoelectric Photometry of SN1993J in M81*", *IBVS*, 3905, 1M.

Conference
Proceedings and
other papers

- **Valentinuzzi, T. et al (2010)**, "*Superdense Massive Galaxies in local and high-z galaxy clusters*", contributed talk at International Astronomical Congress CLJ2010+0628 held in Kashiwa, Tokyo, JAPAN. 28th June/02nd July 2010 .
- **Valentinuzzi, T. et al (2010)**, "*Tidal energy effects of dark matter halos on early-type galaxies*", article in Book "Energy Research Developments: Tidal Energy, Energy Efficiency and Solar Energy" published by NOVA PUBLISHERS, Editors: Kenneth F. Johnson and Thomas R. Veliotti.
- **D'Onofrio M. et al. (2009)**, "*Comparing the Fundamental Plane of Early-Type Galaxies in the V and K bands*" Joint Discussion: Dark Matter in Early-Type galaxies IAU-GA, August 3-5, 2009.
- **Valentinuzzi T., Woods D., Riello M. (2008)**, "*WINGS-NIR - Deep Near Infrared survey of 28 nearby galaxy clusters*", CONFERENCE "JENAM 2008", 8/12 Settembre, Università di Vienna, AT.
- **Valentinuzzi, T. (2006)** , "*Clausius Virial Theory and the energy conservation paradigm*", CONFERENCE "From Stars to Galaxies", 16/20 Ottobre, Istituto Veneto di Scienze, Lettere ed Arti, VENEZIA, IT.
- **Bindoni et al. (2006)**, "*Test of Clausius' Virial dynamical theory*" , CONVEGNO "IAU XXVIth Assembly", 14/25 Agosto, PRAGA, CZ.
- **Valentinuzzi T. et al. (2006)** , "*The 3D Topology of the Clausius Virial*", CONVEGNO "IAU XXVIth Assembly", 14/25 Agosto, PRAGA, CZ.
- **Secco L. e Valentinuzzi T. (2004)**, "*Interpretation of the fundamental plane by using tensor virial theorem*" , CONFERENCE "THE MANY SCALES OF THE UNIVERSE", 13/17 settembre, Joint European and National Astronomical meeting, GRANADA, SP.
- **Valentinuzzi T. et al. (2003)**, "*Violent relaxation of galactic dark matter halos*", Cineca Reports, Bologna.
- **Valentinuzzi T. et al. (2003)**, "*Wings project and the fundamental plane of elliptical galaxies*", CONFERENCE "DYNAMICS AND EVOLUTION OF GALAXIES", May 19th/20th , Accademia nazionale dei Lincei, ROME.

- **Valentinuzzi T. (1998)**, "Handbook of calibration and use of the Pennar CCD at the Asiago 1,22m telescope", Published for the Astrophysical Observatory of Asiago, ITALY.
- **Tomov T. et al. (1996)**, "*Monitoring MWC 560=V694 Monocerotis in 1990-1995. Conventional and high-speed UBV photometry*", A&A, 116, 1T

Courses and Workshops

- **Python (2009)** – 6 months course on Python programming. OAPD INAF.
- **Java (2008)** – 2 months course on Java programming. OAPD INAF.
- **Science with AstroWise (2008)** – 5 days on AstroWise software, Lorentz Center, Leiden (NL).
- **Euro-VO-DCA workshop (2008)** – 5 days workshop on database and catalog publication with EURO-VO Virtual Observatory, MPI, Garching, (DE).

Teaching

- 2009/2010 – Teaching in secondary school at the istituto comprensivo "Dante Alighieri" of Orgiano (VI), as maths and science teacher.
- 2008/2009 – Supervisor for a Astronomy master thesis at the University of Padova.
- 2007/2008 – Teaching in secondary school at the istituto comprensivo "B. Bizio" of Longare (VI), as maths and science teacher.
- 2007/2008 – Tutor at the Padova University – Astronomy Department "*Laboratorio di Astronomia I*".
- 2007/2008 – Tutor at the Padova University – Astronomy Department "*Tecniche di Misurazione Astrofisiche*".
- 2006/2007 – Tutor at the Padova University – Astronomy Department "*Tecniche di Misurazione Astrofisiche*".
- 2006/2007 – Teaching in secondary school at the "Leonardo da Vinci" di Noventa Vicentina (VI).

Outreaching

- **Year 2010**, Public lectures in astronomy at Agugliaro (VI), Noventa Vicentina (VI).
- **Year 2009**, Public lectures in astronomy for the International Year of Astronomy at Conselve (PD), Villafranca Padovana (PD), Albettono (VI), Bologna (BO) in occasione dell'anno internazionale dell'astronomia.
- **Year 2009**, "COSMOCROMIE" a 3 public conferences cycle on astronomy, Complesso Monumentale S. Paolo, Monselice, PD, IT.
- **Gen/May 2008**, "Save the Energy of the planet..." – lectures with

secondary school students, Longare (VI).

- **10 Nov 2007**, "*From the Big Bang to the present day.*" – lectures with secondary school students, Noventa Vicentina (VI)
- Advanced knowledge of reduction and analysis of science images with IRAF.
- Advanced knowledge of photometric tools for wide-field source extraction and analysis such as MONTAGE and SWARP (mosaicking), SExtractor (source extraction), GASPHOT (automated surface photometry and profile fitting), MORPHOT (automated morphological classificatory for wide fields).
- Basic knowledge of SED fitting software like HYPERZ-MASS and SIMSPEC
- Python astronomical libraries
- Construction and use of MySQL web and script based astronomical databases

Astronomy related
computer software
knowledge

Known Languages

- Advanced knowledge of English language

Computer
Knowledge

- In-depth knowledge of Basic and Visual Basic programming.
- Advanced capacity in Python and object oriented programming
- Advanced knowledge of MySQL database programming and querying.
- Introductory knowledge of Fortran programming.
- In-depth knowledge of the basic Windows XP tools, Office, VAX, LINUX and UNIX.
- Advanced knowledge of softwares like Adobe, Corel Draw, Power Point, Matematica, Matlab, Derive, good attitude to graphics and design.
- Basic knowledge of Autocad 2006.
- Advanced knowledge in photometric and spectroscopic reduction of science images with IRAF.
- Advanced knowledge of photometric tools for wide-field imaging with MONTAGE, SExtractor e GASPHOT.

E. K. ...