

Refereed papers published:

1. Shapovalova, A. I.; Doroshenko, V. T.; Bochkarev, N. G.; Burenkov, A. N.; Carrasco, L.; Chavushyan, V. H.; Collin, S.; Valds, J. R.; Borisov, N.; Dumont, A.-M.; Vlasuyk, V. V.; **Chilingarian, I.**; Fioktistova, I. S.; Martinez, O. M.; 2004; *A&A*; v.422, p.925; “Profile variability of the $H\alpha$ and $H\beta$ broad emission lines in NGC 5548”
2. Lipunov, V. M.; Krylov, A. V.; Kornilov, V. G.; Borisov, G. V.; Kuvshinov, D. A.; Belinsky, A. A.; Kuznetsov, M. V.; Potanin, S. A.; Antipov, G. A.; Tyurina, N. V.; Gorbovskey, E. S.; **Chilingaryan, I. V.**; 2004; *AN*; v.325, p.580; “MASTER: The Mobile Astronomical System of Telescope-Robots”
3. **Chilingarian, I.**; Sil’chenko, O.; Afanasiev V.; Prugniel Ph.; 2007; “*Astronomy Letters*”, 33, 292: “Young nuclei in dwarf elliptical galaxies”
4. **Chilingarian, I.**; Prugniel P.; Sil’chenko O.; Afanasiev V.; 2007; *MNRAS*, 376, 1033: “Kinematics and stellar populations of the dwarf elliptical galaxy IC 3653”
5. **Chilingarian, I.**; Cayatte, V.; Chemin, L.; Durret, F.; Lagan, T. F.; Adami, C.; Slezak, E.; 2007; *A&A*, 466, L21: “Discovery of a new M 32-like Compact Elliptical galaxy in the halo of the Abell 496 cD galaxy”
6. **Chilingarian, I.** and Mamon, G. A.; 2008; *MNRAS*, 385, L83: “SDSSJ124155.33+114003.7 – a Missing Link Between Compact Elliptical and Ultracompact Dwarf Galaxies”
7. Dodonov, S. and **Chilingaryan, I.**; 2008; “*Astrophysical Bulletin*”, 63, 1: “Library of reference spectral energy distributions of galaxies for the classification and determination of photometric redshifts of objects”
8. **Chilingarian, I.**; Cayatte, V.; Durret, F.; Adami, C.; Balkowski, C.; Chemin, L.; Laganá, T. F.; Prugniel, Ph.; 2008; *A&A*; 486, 85: “Kinematics and Stellar Populations of Low-Luminosity Early-type Galaxies in the Abell 496 Cluster”
9. **Chilingarian, I.**; Cayatte, V.; Bergond, G.; 2008; *MNRAS*, 390, 906: “Stellar population constraints on the dark matter content and origin of ultra-compact dwarf galaxies”
10. Di Matteo, P.; Combes, F.; **Chilingarian, I.**; Melchior, A.-L.; Semelin, B. 2008, *Astronomische Nachrichten*, 9, 952: “Evolution of galaxies in pairs: learning from simulations”
11. Sil’chenko, O.; **Chilingarian, I.**; Afanasiev, V.; 2009; *Astronomy Letters*, 35, 75: “The Star Formation History of the Circumnuclear Region in the Barred Galaxy NGC 4245”
12. **Chilingarian, I.**; 2009, *MNRAS*, 394, 1229: “Evolution of Virgo cluster dwarf elliptical galaxies I. Spatially-resolved stellar populations and internal kinematics.”
13. **Chilingarian, I.**; De Rijcke, S.; Buyle, P.; 2009, *ApJL*, 697, L111: “Internal Kinematics and Stellar Populations of the E+A Galaxy SDSS J230743.41+152558.4”
14. Melnyk, O. V.; Karachentseva, V. E.; Karachentsev, I. D.; Makarov, D. I.; **Chilingarian, I. V.**; 2009, *Astrophysics*, 52, 184: “Search for companions of nearby isolated galaxies”
15. **Chilingarian, I.**; Novikova, A.; Cayatte, V.; Combes, F.; Di Matteo, P.; Zasov, A.; 2009, *A&A*, 504, 389: “NGC 6340: an old S0 galaxy with a young polar disc. Clues from morphology, internal kinematics and stellar populations”

16. **Chilingarian, I.**; Cayatte, V.; Revaz, Y.; Dodonov, S.; Durand, D.; Durret, F.; Micol, A.; Slezak, E.; 2009, *Science*, 326, 1379 “A Population of Compact Elliptical Galaxies Detected with the Virtual Observatory”
17. **Chilingarian, I.**; Bergond, G.; 2010, *MNRAS*, 405, L11: “SDSS J150634.27+013331.6: the second compact elliptical galaxy in the NGC 5846 group”
18. **Chilingarian, I.**; Melchior, A.-L.; Zolotukhin, I.; 2010, *MNRAS*, 405, 1409: “Analytical approximations of K -corrections in optical and near-infrared bands”
19. **Chilingarian, I.**; Di Matteo, P.; Combes, F.; Melchior, A.-L.; Semelin, B.; 2010, *A&A*, 518, A61: “The GalMer database: Galaxy Mergers in the Virtual Observatory”
20. Zolotukhin, I.; **Chilingarian, I.**; 2011, *A&A*, 526, A84: “Virtual Observatory based identification of AX J194939+2631 as a new cataclysmic variable”
21. Sil’chenko, O.; **Chilingarian, I.**; 2011, *Astronomy Letters*, 37, 1: “Star formation history at the centres of lenticular galaxies with bars and purely exponential outer disks from SAURON Data”
22. **Chilingarian, I.**; Mieske, S.; Hilker, M.; Infante, L.; 2011, *MNRAS*, 412, 1627: “Dynamical vs. stellar mass-to-light ratios for a large sample of ultracompact dwarf galaxies in the Fornax cluster”
23. Katkov, I.; **Chilingarian, I.**; Sil’chenko, O.; Zasov, A.; Afanasiev, V.; 2011, *Baltic Astronomy*, 20, 453: “A Complex Stellar Line-of-Sight Velocity Distribution in the Lenticular Galaxy NGC 524”
24. Sil’chenko, O.; **Chilingarian, I.**; Sotnikova, N.; Afanasiev, V.; 2011, *MNRAS*, 414, 3645: “Large scale nested stellar discs in NGC 7217”
25. **Chilingarian, I.**; Zolotukhin, I.; 2012, *MNRAS*, 419, 1727: “A universal ultraviolet-optical colour–colour–magnitude relation of galaxies”
26. Francis, K.; Drinkwater, M.; **Chilingarian, I.**; Bolt, A.; Firth, P.; 2012, *MNRAS*, 425, 325: “The chemical composition of ultracompact dwarf galaxies in the Virgo and Fornax clusters”
27. McLeod, B.; Fabricant, D.; . . . **Chilingarian, I.** (9 of 22) et al.; 2012, *PASP*, 124, 1318: “MMT and Magellan Infrared Spectrograph”
28. Bean, J.; Desert, J.-M.; Seifahrt, A.; Madhusudhan, N.; **Chilingarian, I.**; Homeier, D.; Szentgyorgyi, A.; 2013, *ApJ*, 771 108: “Ground-based Transit Spectroscopy of the Hot-Jupiter WASP-19b in the Near-infrared”
29. Podorvanyuk, N.; **Chilingarian, I.**; Katkov, I.; 2013, *MNRAS*, 432, 2632: “A new technique for the determination of the initial mass function in unresolved stellar populations”
30. Saulder, C.; Mieske, S.; Zeilinger, W.; **Chilingarian, I.**; 2013, *A&A*, 557, A21: “Calibrating the fundamental plane with SDSS DR8 data”
31. Damjanov, I.; **Chilingarian, I.**; Hwang, H. S.; Geller, M.; 2013, *ApJL*, 775, L48: “Discovery of Nine Intermediate-redshift Compact Quiescent Galaxies in the Sloan Digital Sky Survey”
32. Fabricant, D.; **Chilingarian, I.**; Hwang, H. S.; Kurtz, M.; Geller, M.; Del’Antonio, I.; Rines, K.; 2013, *PASP*, 125, 1362: “Measuring Galaxy Velocity Dispersions with Hectospec”
33. Kasparova, A.; Saburova, A.; Katkov, I.; **Chilingarian, I.**; Bizyaev, D.; 2014, *MNRAS*, 437, 3072: “A portrait of Malin 2: a case study of a giant low surface brightness galaxy”

International Virtual Observatory Standards (peer-reviewed):

34. Mireille Louys; Anita Richards; Francois Bonnarel; Alberto Micol; **Igor Chilingarian**; Jonathan McDowell; “Data Model for Astronomical DataSet Characterisation”; IVOA Recommendation: 08 November 2007
35. Mireille Louys; Francois Bonnarel; . . . **Igor Chilingarian** (10 of 13) et al.; “Observation Data Model Core Components and its Implementation in the Table Access Protocol Version 1.0”; IVOA Recommendation: 28 October 2011

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1. **Chilingarian, I.**; Master thesis. International conference for graduate, postgraduate students and young scientists in fundamental sciences “Lomonosov-2003”. Section: Physics, proceedings of the conference, 2003, pp.16-17. “Object classification by SEDs.”
2. Prugniel, P.; **Chilingarian, I.**; Flores, H.; Guibert, J.; Jegouzo, I.; Royer, F.; Tajahmady, F.; Theureau, G.; Vétois, J.; 2003; Proceedings of SF2A-2003; “MIGALE: A Multiparametric Virtual Instrument to Study Galaxy Evolution”
3. **Chilingarian, I.**; Bartunov, O.; Richter, J.; Sigaev, T.; 2004; ASP Conference Series, Vol. 314, p. 225; “PostgreSQL: the Suitable DBMS Solution for Astronomy and Astrophysics”
4. Prugniel, P.; Paturel, G.; Georgiev, V.; **Chilingarian, I.**; Petit, C.; 2004; Proceedings of ESO/ESA/NASA/NSF Conference, p. 307; “HyperLeda: Virtual Instruments for Extragalactic Astronomy”
5. Prugniel, Ph.; **Chilingarian, I.**; Flores, H.; Guibert, J.; Haigron, R.; Jégouzo, I.; Royer, F.; Tajahmady, F.; Theureau, G.; Vétois, J.; 2004; Proceedings of SF2A-2004, p. 555; “Virtual Instrumentation to study galaxies”
6. Prugniel, P.; **Chilingarian, I.**; Sil’chenko, O.; Afanasiev, V.; 2005; Proceedings of IAU Colloquium 198, p. 73 (astro-ph/0510398); “Internal kinematics and stellar populations of dE galaxies: clues to their formation/evolution”
7. **Chilingarian, I.**; Prugniel, P.; Sil’chenko, O.; Afanasiev, V.; 2005; Proceedings of IAU Colloquium 198, p. 105; “3D Spectroscopic studies of dE galaxies”
8. **Chilingarian, I.**; Prugniel, P.; Flores, H.; Guibert, J.; Haigron, R.; Jegouzo, I.; Royer, F.; Tajahmady, F.; Theureau, G.; Vétois, J.; 2005; ASP Conference Series, Vol. 347, p. 385; “MIGALE: Milestones and Roadmap”
9. Prugniel, Ph.; **Chilingarian, I.**; Popović, L.; 2005, Memorie della Societa Astronomica Italiana Supplement, v.7, p.42: “The history and dynamics of the stellar population in the central kpc of active galaxies”
10. **Chilingarian, I.**; Bonnarel, F.; Louys, M.; McDowell, J.; 2006, ASP Conference Series, Vol. 351, p. 371; “Handling 3D data in the Virtual Observatory”
11. Simon, G.; Dubernet, M. L.; Le Sidaner, P.; Aboudarham, J.; Barache, C.; Berthier, J.; Boone, F.; Borsenberger, J.; Caillat, M.; **Chilingarian, I.** and 45 co-authors; 2006, ASP Conference Series, Vol. 351, p.394. “VO Paris Federation”

12. Désert, M.; Hébrard, G.; Lecavalier Des Étangs, A.; Ferlet, R.; Vidal-Madjar, A.; **Chilingarian, I.**; 2006, ASP Conference Series, Vol. 351, p. 475, “The IAP FUSE Database: a Virtual Observatory Interactive Web Tool”
13. Koleva, Mina; Prugniel, Philippe; Ocvirk, Pierre; Le Borgne, Damien; **Chilingarian, Igor**; Soubiran, Caroline; 2007; Proceedings of IAU Symposium 241; p.183 “Comparison of different spectral population models”
14. **Chilingarian, I.**; 2007; Proceedings of IAU Symposium 241; p.177: “Access to Stellar Population Models in the Virtual Observatory”
15. **Chilingarian, Igor**; Prugniel, Philippe; Sil’chenko, Olga; Koleva, Mina; p.175: “NBursts: Simultaneous Extraction of Internal Kinematics and Parametrized SFH from Integrated Light Spectra”
16. **Chilingarian, I.**, Ferraz Lagana T., Cayatte V., Durret F., Adami C., Balkowski C., Chemin L., Prugniel P.; 2008; proceedings of “Mapping the Galaxy and Nearby Galaxies”, eds. K. Wada and F. Combes, Springer, p. 315: “Evolution of dE galaxies in Abell 496. Kinematics and stellar populations of 46 galaxies.”
17. **I. Chilingarian**, V. Afanasiev, F. Bonnarel, S. Dodonov, M. Louys, I. Zolotukhin; 2007; ASP Conference Series, Vol. 376, p. 217: “ASPID-SR: Large VO-compliant Science-Ready Data Archive”
18. I. Zolotukhin, N. Samokhvalov, F. Bonnarel, **I. Chilingarian**; 2007; ASP Conference Series, Vol. 376, p. 355: “Comprehensive metadata query interface for heterogeneous data archives based on open source PostgreSQL ORDBMS”
19. **Chilingarian, I.**; Di Matteo, P.; Combes, F.; Melchior, A. -L.; Semelin, B.; proceedings of SF2A-2007, p.310: “Modelling Spectra of N-Body Simulations of Galaxy Mergers”
20. Di Matteo, P.; Combes, F.; **Chilingarian, I.**; Melchior, A. -L.; Semelin, B.; proceedings of SF2A-2007, p.322: “Chemodynamical evolution of interacting galaxies: the GalMer view”
21. Koleva M., Bavouzet N., **Chilingarian, I.**, Prugniel, P.; 2007; Proceedings of ESO Workshop “Scientific Perspectives of 3D Spectroscopy”; p.153
22. **Chilingarian, I.**; Bonnarel, F.; Louys, M.; McDowell, J.; 2007; Proceedings of ESO Workshop “Scientific Perspectives of 3D Spectroscopy”; “Handling IFU Datasets in the Virtual Observatory”; p.29
23. **I. Chilingarian**; V. Cayatte; L. Chemin; F. Durret; proceedings of IAU Symposium 245; 2008, v.245, p.75: “Compact Elliptical Galaxies – Compact Bulges of Stripped Lenticulars/Spirals?”
24. **Chilingarian, Igor**; Sil’chenko, Olga; Afanasiev, Victor; Prugniel, Philippe; proceedings of “Pathways Through an Eclectic Universe”; 2008; ASP Conf.Series, v.390, p.296: “Low-Luminosity Early-Type Galaxies in the NGC 128 Group”
25. Zolotukhin, Ivan; **Chilingarian, Igor**; proceedings of ADASS-XVII; 2008; ASP Conf.Series v.394, p.393: “Middleware for Data Visualization in VO-enabled Data Archives”
26. **Chilingarian, Igor**; Zolotukhin, Ivan; proceedings of ADASS-XVII; 2008; ASP Conf.Series v.394, p.351: “Visualization of Complex Observational and Theoretical Datasets in the Virtual Observatory”

27. **Chilingarian, Igor**; Bonnarel, Francois; Louys, Mireille; Zolotukhin, Ivan; Royer, Frederic; Jegouzo, Isabelle; Le Sidaner, Pierre; Fernique, Pierre; Boch, Thomas; proceedings of ESA Workshop “Astronomical Spectroscopy and the Virtual Observatory”, ESA, 2009, p.125: “3D Spectroscopy in the Virtual Observatory: Current Status”
28. Di Matteo, P.; **Chilingarian, I.**; Melchior, A.-L.; Combes, F.; Semelin, B.; Proceedings of SF2A-2008, p.369: “The GalMer database: modeling colors and spectra”
29. **Chilingarian, Igor**; proceedings of “Multi-wavelength Astronomy and Virtual Observatory”, 2009, ESA, p.165: “Virtual Observatory for Astronomers: Where Are We Now?”
30. **Chilingarian, Igor**; Zolotukhin, Ivan; proceedings of ADASS-XIX; 2010, ASP Conference Series, 434, 179: “Transparent scientific usage as the key to success of the Virtual Observatory”
31. Sil’chenko, O.; **Chilingarian, I.**; Afanasiev, V.; proceedings of “Tumbling, twisting, and winding galaxies: Pattern speeds along the Hubble sequence”; 2011; MSAIS, 18, 159: “NGC 4245: one or two bars, and where does the gas inflow stop?”
32. Katkov, I.; **Chilingarian, I.**; proceedings of ADASS-XX; 2011, ASP Conference Series, 442, 143: “A New Sky Subtraction Technique for Low Surface Brightness Data”
33. **Chilingarian, I.**; Zolotukhin, I.; proceedings of ADASS-XX; 2011, ASP Conference Series, 442, 471: “The True Bottleneck of Modern Scientific Computing in Astronomy”
34. **Chilingarian, I.**; Katkov, I.; proceedings of IAU Symposium 284; 2012, p.26: “NBursts+phot: parametric recovery of galaxy star formation histories from the simultaneous fitting of spectra and broad-band spectral energy distributions”
35. Katkov, I.; **Chilingarian, I.**; proceedings of IAU Symposium 284; 2012, p.69: “Multi-component parametric inversion of galaxy kinematics and stellar populations using full spectral fitting”
36. Bonnarel, F.; Louys, M.; **Chilingarian, I.**; proceedings of ADASS-XXI; 2012, ASP Conference Series, 461, 299: “Evolution of the IVOA Characterisation Data Model”
37. **Chilingarian, I.**; Bonnarel, F.; Louys, M.; Le Sidaner, P.; proceedings of ADASS-XXI; 2012, ASP Conference Series, 461, 307: “Lessons Learned in Building VO Resources: Binding Together Several VO Standards into an Operational Service”
38. **Chilingarian, I.**; Brown, W.; Fabricant, D.; McLeod, B.; Roll, J.; Szentgyorgyi, A.; 2013, proceedings of ADASS-XXII; ASP Conference Series 475, 189: “Data reduction pipeline for the MMT Magellan Infrared Spectrograph”
39. Royer, F.; Jegouzo, I.; Tajahmady, F.; Normand, J.; **Chilingarian, I.**; 2013, proceedings of ADASS-XXII; ASP Conference Series 475, 155: “The GIRAFFE Archive: 1D and 3D Spectra”
40. Saburova, A.; Kasparova, A.; Katkov, I.; Bizyaev, D.; Chilingarian, I.; 2013, proceedings of IAU Symposium 295, 236: “On the general structure of giant low surface brightness galaxy Malin 2”

Other publications:

13 Gamma-Ray Burst Network Circulars (GCN) in 2003–2004, as a member of MASTER collaboration. Circulars: 2002, 2035, 2091, 2103, 2157, 2158, 2262, 2385, 2394, 2543, 2569, 2605, 2608