

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 α and H β 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”

Refereed papers accepted:

19. **Chilingarian, I.**; Di Matteo, P.; Combes, F.; Melchior, A.-L.; Semelin, B.; *A&A* (arXiv:1003.3243): “The GalMer database: Galaxy Mergers in the Virtual Observatory”
20. Sil’chenko, O.; **Chilingarian, I.**: *Astronomy Letters*: “Star formation history in the centres of barred lenticular galaxies with purely exponential outer discs”
21. Zolotukhin, I.; **Chilingarian, I.**; *A&A* (arXiv:1010.3440): “Virtual Observatory based identification of AX J194939+2631 as a new cataclysmic variable”
22. **Chilingarian, I.**; Mieske, S.; Hilker, M.; Infante, L.; *MNRAS* (arXiv:1011.1851): “Dynamical vs. stellar mass-to-light ratios for a large sample of ultracompact dwarf galaxies in the Fornax cluster”

Refereed papers submitted:

23. Sil’chenko, O.; **Chilingarian, I.**; Sotnikova, N.; Afanasiev, V.; *MNRAS*: “Large scale nested stellar discs in NGC 7217”

International Virtual Observatory Standards (peer-reviewed):

24. Mireille Louys; Anita Richards; Francois Bonnarel; Alberto Micol; **Igor Chilingarian**; Jonathan McDowell; “Data Model for Astronomical DataSet Characterisation”; IVOA Recommendation: 08 November 2007

Conference proceedings:

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.; Jégouzo, 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.; Abouadarham, 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 in press: “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”; 2010 in press: “NGC 4245: one or two bars, and where does the gas inflow stop?”

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