д-р Галин Гюлчев

Пълен списък с публикации

А) Публикации в международни списания с импакт фактор

1. G. Gyulchev, P. Nedkova, T. Vetsov and S. Yazadjiev, „Image of the Janis-Newman-Winicour naked singularity with a thin accretion disk“, Phys. Rev. D 100, 024055 (2019).
2. Kimet Jusufi, Ayan Banerjee, Galin Gyulchev, Muhammed Amir, “Distinguishing rotating naked singularities from Kerr-like wormholes by their deflection angles of massive particles”, Eur. Phys. J. C 79:28 (2019).
3. A. Övgün, G. Gyulchev, K. Jusufi, „Weak Gravitational lensing by phantom black holes and phantom wormholes using the Gauss–Bonnet theorem”, Annals of Physics 406, 152-172 (2019).
4. Galin Gyulchev, Petya Nedkova, Vassil Tinchev, Stoytcho Yazadjiev, „On the shadow of rotating traversable wormholes”, Eur. Phys. J. C 78: 544 (2018).
5. Ivan Zh. Stefanov, Galin G. Gyulchev, Stoytcho S. Yazadjiev, „Quasiperiodic oscillations and Tomimatsu-Sato $\delta = 2$ space-time”, Phys. Rev. D 87 (8), 083005 (2013).
6. Galin N. Gyulchev, Ivan Zh. Stefanov, „Gravitational lensing by phantom black holes”, Phys. Rev. D 87 (6), 063005 (2013).
7. Ivan Zh. Stefanov, Stoytcho S. Yazadjiev, and Galin G. Gyulchev, „Connection between Black-Hole Quasinormal Modes and Lensing in the Strong Deflection Limit”, Phys. Rev. Lett. 104, 251103, (2010).
8. Galin N. Gyulchev, Stoytcho S. Yazadjiev, „Analytical Kerr-Sen dilaton-axion black hole lensing in the weak deflection limit”, Phys. Rev. D 81, 023005 (2010).
9. Galin N. Gyulchev, Stoytcho S. Yazadjiev, „Gravitational lensing by rotating naked singularities”, Phys. Rev. D 78, 083004 (2008).
10. Galin N. Gyulchev, Stoytcho S. Yazadjiev, „Kerr-Sen dilaton-axion black hole lensing in the strong deflection limit”, Phys. Rev. D75, 023006, (2007).

Водещ (кореспондиращ) автор в A.1, A.3, A.4, A.6, A.7, A.9, A10.

Б) Публикации в реферирани и индексирани сборници от доклади от конференции

1. G. Gyulchev, P. Nedkova, V. Tinchev and Y. Stoytcho, „Cusp structure in shadows casted by rotating wormholes”, Proceedings of the 10th Jubilee Conference of the Balkan Physical Union, AIP Conf. Proc. 2075 (2019) no.1, 040005, doi:10.1063/1.5091165.

2. G. Gyulchev and I. Z. Stefanov, „Strong Gravitational Lensing by Phantom Black Holes", Proceedings of the 13th Marcel Grossmann Meeting on General Relativity, pp. 2091-2093 (2013), World Scientific, Singapore.
3. V. Kalinova and G. Gyulchev, „Gravitational Abberation of a Cluster of Galaxies: Dark Matter", Proceedings of the 3rd School and Workshop on Space Plasma Physics, AIP Conf. Proc. 1356 (2011) no.1, pp. 60-66, doi:10.1063/1.3598093.
4. G. Gyulchev and S. Yazadjiev, „Gravitational lensing by Kerr-Sen dilaton-axion black hole in the weak deflection limit", Proceedings of the 2nd Conference of the Euro-American Consortium for Promoting the Application of Mathematics in Technical and Natural Sciences (AMiTaNS 10), AIP Conf. Proc. 1301 (2010) no.1, pp. 327-335.
5. I. Stefanov, S. Yazadjiev and G. Gyulchev, „Relation between the Parameters of a Gravitational Lens and the Frequencies of Black-hole Quasi-normal Modes", Proceedings of the 2nd Conference of the Euro-American Consortium for Promoting the Application of Mathematics in Technical and Natural Sciences (AMiTaNS 10), AIP Conf. Proc. 1301 (2010) no.1, p. 355.
6. G. Gyulchev and S. Yazadjiev, „Gravitational lensing by rotating naked singularities in the equatorial plane", Proceedings of the 33rd International Conference on Applications of Mathematics in Engineering and Economics (AMEE'07), AIP Conf. Proc. 946 (2007) no.1, pp. 106-118.
7. G.N. Gyulchev and S.S. Yazadjiev, „Strong gravitational lensing by Kerr-Sen dilaton-axion black hole", Proceedings of the Sixth International Conference of the Balkan Physical Union, Istanbul, Turkey, August 22-26, 2006, AIP Conf. Proc. 899 (2007) no.1, pp. 145-146.
8. G.N. Gyulchev and S.S. Yazadjiev, „Garfinkle-Horovitz-Strominger dilaton black hole gravitational lensing in the strong deflection limit", Modern mathematical physics. Proceedings, 4th Summer School, Dedicated to Irina Ya. Arefeva's Jubilee, Belgrade, Serbia, September 3-14, 2006, SFIN A 1, pp. 229-238.
9. Й. Ходжев, И. Масларски и Г. Гюлчев, „Приложение на 3D принтирането в обучението по биология и медицина", 46-та национална конференция по въпросите на обучението по физика „Европейски измерения на българското образование по физика", 13 – 15 април 2018 г., Плевен, Списание „Педагогически алманах" 26 (2018), pp. 55-59.
10. I. Maslarski, Y. Hodzhev and G. Gyulchev, „Aortic arch aneurysm represented by 3D printing and simulation of fluid movement through it", Scripta Scientifica Medica, 49 (2017), p. 47, ISSN 1314–6408.
11. I. Maslarski, Y. Hodzhev and G. Gyulchev, „Creating 3D printed plastic models of the great saphenous vein system using angiographic and tomographic studies in norm and pathology", Scripta Scientifica Medica, 49 (2017), p. 47, ISSN 1314–6408.

12. I. Ilieva, G. Gyulchev, G. Zlateva, „Development of thermal and visual imaging system for monitoring plant growth and status in Svet-3 space greenhouse: requirements and camera selection", Proceedings of Thirteenth International Scientific Conference "Space, Ecology, Safety, SES 2017, 2-4 November 2017, Space Research and Technology Institute – Bulgarian Academy of Sciences, Sofia, Bulgaria, 130-133, ISSN 1313–3888.

Водещ (кореспондиращ) автор в Б.1, Б.2, Б.3, Б.4, Б.6, Б.7, Б.8.

В) Публикации в електронни архиви

1. Gyulchev, Galin and Kunz, Jutta and Nedkova, Petya and Vetsov, Tsvetan and Yazadjiev, Stoytcho, „Observational signatures of strongly naked singularities: image of the thin accretion disk", arXiv:2003.06943 (2020), submitted to Eur. Phys. J. C.
2. T. Vetsov, G. Gyulchev and S. Yazadjiev, „Shadows of black holes in vector-tensor Galileons modified gravity", arXiv:1801.04592 (2018).
3. I.Z. Stefanov, S.S. Yazadjiev and G.N. Gyulchev, „Lensing in the strong deflection limit and black-hole quasi-normal modes", arXiv:1003.1609v2 (2010).
4. G.N. Gyulchev, S.S. Yazadjiev, „Equatorial Lensing by Rotating Naked Singularities in the Strong Deflection Limit", www.academia.edu/31245242 (2008).

Водещ (кореспондиращ) автор във В.1, В.2, В.4, В.5.

Г) Монографии и учебници

1. Галин Гюлчев, Стойчо Язаджиев, „Гравитационни лещи", УИ „Св. Климент Охридски", 2017 г., 340 стр., (https://unipress.bg/gravitatsionni-leshti).

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