

## PUBLICATION RECORD (LÁSZLÓ ÁRPÁD GERGELY)

### Total number of scientific works:

201

37 as single author (S), 107 with my students and other coauthors,  
57 LIGO Scientific Collaboration (LSC)

in refereed journals

125

18 S, 65 with my students and other coauthors, 42 LSC

Nature Photonics	1 (1 LSC)
Living Reviews in Relativity	1 (1 LSC)
Nature Physics	1 (1 LSC)
Astrophysical Journal	4 (3 LSC)
Astrophysical Journal Supplement Series	4 (2 LSC)
Physical Review Letters	7 (7 LSC)
Journal of Cosmology and Astroparticle Physics	7 (1 S, 1 LSC)
Astrophysical Journal Letters	1 (1 LSC)
Monthly Notices of the Royal Astronomical Society	5
Physical Review D	58 (12 S, 18 LSC)
Astronomy and Astrophysics	2 (2 LSC)
Classical and Quantum Gravity	18 (3 S, 5 LSC)
European Physical Journal C	1
Annals of Physics	1 (1 S)
Physics Letters A	1
Research in Astronomy and Astrophysics	1
Annalen der Physik	2
International Journal of Modern Physics D	1
Astronomical Notes (Astronomische Nachrichten)	4
Journal of Mathematical Physics	3 (1 S)
PMC Physics A (open access)	2

submitted

18 (15 LSC)

book chapters (in English / Hungarian)

1 / 2

in conference proceedings volumes

38

AIP Conference Proceedings	5
Nuclear Physics B – Proceedings Supplement	4
Journal of Physics: Conference Series	4
Springer Proceedings in Physics	2
Springer Proceedings in Mathematics & Statistics	1
Publications Astron Dept Eötvös University	1
Conference proceedings books	19
Conference reports (arXiv)	2

award-winning essay

1

other arXiv preprints

1 (LSC)

popularization of science (in Hungarian)

10

dissertations, theses (in Hungarian / Romanian)

3 / 2

### Publication and citation data in international databases (INSPIRE, ADS, Google Scholar):

<http://inspirehep.net/author/profile/L.A.Gergely.1>

[http://adsabs.harvard.edu/cgi-bin/nph-abs\\_connect?db\\_key=AST&db\\_key=PHY&db\\_key=PRE&qform=PHY&arxiv\\_sel=astro-ph&arxiv\\_sel=cond-mat&arxiv\\_sel=cs&arxiv\\_sel=gr-qc&arxiv\\_sel=hep-ex&arxiv\\_sel=hep-lat&arxiv\\_sel=hep-ph&arxiv\\_sel=hep-th&arxiv\\_sel=math&arxiv\\_sel=math-ph&arxiv\\_sel=nl&arxiv\\_sel=nucl-ex&arxiv\\_sel=nucl-th&arxiv\\_sel=physics&arxiv\\_sel=quant-ph&arxiv\\_sel=q-bio&aut\\_logic=OR&author=gergely%2C+%0D%0Aarpad+gergely%2C+%0D%0Aarned\\_query=YES&sim\\_query=YES&start\\_mon=01&start\\_year=1993&end\\_mon=&end\\_year=&ttl\\_logic=OR&ttl\\_text=&txt\\_logic=OR&txt\\_nr\\_to\\_return=200&start\\_nr=1&jou\\_pick=ALL&ref\\_stems=&data\\_and=ALL&group\\_and=ALL&start\\_entry\\_day=&start\\_entry\\_mon=&start\\_entry\\_year=&end\\_entry\\_day=&end\\_entry\\_mon=&end\\_entry\\_year=&min\\_score=&sort=SCORE&data\\_type=SHORT&aut\\_syn=YES&ttl\\_syn=YES&txt\\_syn=YES&aut\\_wt=1.0&ttl\\_wt=0.3&txt\\_wt=3.0&aut\\_wgt=YES&obj\\_wgt=YES&ttl\\_wgt=YES&txt\\_wgt=YES&ttl\\_sco=YES&txt\\_sco=YES&version=1](http://adsabs.harvard.edu/cgi-bin/nph-abs_connect?db_key=AST&db_key=PHY&db_key=PRE&qform=PHY&arxiv_sel=astro-ph&arxiv_sel=cond-mat&arxiv_sel=cs&arxiv_sel=gr-qc&arxiv_sel=hep-ex&arxiv_sel=hep-lat&arxiv_sel=hep-ph&arxiv_sel=hep-th&arxiv_sel=math&arxiv_sel=math-ph&arxiv_sel=nl&arxiv_sel=nucl-ex&arxiv_sel=nucl-th&arxiv_sel=physics&arxiv_sel=quant-ph&arxiv_sel=q-bio&aut_logic=OR&author=gergely%2C+%0D%0Aarpad+gergely%2C+%0D%0Aarned_query=YES&sim_query=YES&start_mon=01&start_year=1993&end_mon=&end_year=&ttl_logic=OR&ttl_text=&txt_logic=OR&txt_nr_to_return=200&start_nr=1&jou_pick=ALL&ref_stems=&data_and=ALL&group_and=ALL&start_entry_day=&start_entry_mon=&start_entry_year=&end_entry_day=&end_entry_mon=&end_entry_year=&min_score=&sort=SCORE&data_type=SHORT&aut_syn=YES&ttl_syn=YES&txt_syn=YES&aut_wt=1.0&ttl_wt=0.3&txt_wt=3.0&aut_wgt=YES&obj_wgt=YES&ttl_wgt=YES&txt_wgt=YES&ttl_sco=YES&txt_sco=YES&version=1)

[http://scholar.google.com/citations?view\\_op=list\\_works&hl=en&user=c6BN4PYAAAAJ&gmla=AjsN-F61Q\\_Z1Ny4-uRRwuL6QhBxQwuN1-0q6tztE6pAnW\\_6U6iIJDaFJeeVuruDCobTP0eosF2ZcDMx33cYO2xj6dMKqDQOS3EjTp83rciaocdXy4I-WXkT4Car1h7uZApMBMuvpCIT](http://scholar.google.com/citations?view_op=list_works&hl=en&user=c6BN4PYAAAAJ&gmla=AjsN-F61Q_Z1Ny4-uRRwuL6QhBxQwuN1-0q6tztE6pAnW_6U6iIJDaFJeeVuruDCobTP0eosF2ZcDMx33cYO2xj6dMKqDQOS3EjTp83rciaocdXy4I-WXkT4Car1h7uZApMBMuvpCIT)

## DETAILED PUBLICATION LIST

- [201] *A flat spectrum candidate for a track-type high energy neutrino emission event, the case of blazar PKS 0723-008*  
E Kun, P Biermann, **LÁ Gergely**  
Submitted to Mon. Not. Royal Astron. Soc. (2016) [arXiv:1607.04041 [astro-ph.HE]]
- [200] *Search for continuous gravitational waves from neutron stars in globular cluster NGC 6544*  
The LIGO Scientific Collaboration, including **LÁ Gergely** + Virgo Collaboration  
Submitted (2016) [LIGO Document P1500225] [arXiv: 1607.02216 [gr-qc]]
- [199] *Binary Black Hole Mergers in the first Advanced LIGO Observing Run*  
The LIGO Scientific Collaboration, including **LÁ Gergely** + Virgo Collaboration  
Submitted (2016) [LIGO Document P1600088] [arXiv: 1606.04856 [gr-qc]]
- [198] *Supplement: The Rate of Binary Black Hole Mergers Inferred from Advanced LIGO Observations Surrounding GW150914*  
The LIGO Scientific Collaboration, including **LÁ Gergely** + Virgo Collaboration  
Submitted to Astrophys. J. Lett. (2016) [LIGO Document P1500217] [arXiv: 1606.03939 [astro-ph.HE]]
- [197] *GW151226: Observation of Gravitational Waves from a 22-Solar-Mass Binary Black Hole Coalescence* **IF=7.512**  
The LIGO Scientific Collaboration, including **LÁ Gergely** + Virgo Collaboration  
Phys. Rev. Lett. **116**, 241103-1-14 (2016) [LIGO Document P151226] [arXiv: 1606.04855 [gr-qc]]
- [196] *Directly comparing GW150914 with numerical solutions of Einstein's equations for binary black hole coalescence*  
The LIGO Scientific Collaboration, including **LÁ Gergely** + Virgo Collaboration  
Submitted (2016) [LIGO Document P1500263] [arXiv: 1606.01262 [gr-qc]]
- [195] *An improved analysis of GW150914 using a fully spin-precessing waveform model*  
The LIGO Scientific Collaboration, including **LÁ Gergely** + Virgo Collaboration  
Submitted (2016) [LIGO Document P1600048] [arXiv: 1606.01210 [gr-qc]]
- [194] *Comprehensive All-sky Search for Periodic Gravitational Waves in the Sixth Science Run LIGO Data*  
The LIGO Scientific Collaboration, including **LÁ Gergely** + Virgo Collaboration  
Submitted (2016) [LIGO Document P1500219] [arXiv: 1605.03233 [gr-qc]]
- [193] *A First Targeted Search for Gravitational-Wave Bursts from Core-Collapse Supernovae in Data of First-Generation Laser Interferometer Detectors*  
The LIGO Scientific Collaboration, including **LÁ Gergely** + Virgo Collaboration  
Submitted (2016) [LIGO Document P1400208] [arXiv: 1605.01785 [gr-qc]]
- [192] *Search for transient gravitational waves in coincidence with short duration radio transients during 2007-2013*  
The LIGO Scientific Collaboration, including **LÁ Gergely** + Virgo Collaboration  
Submitted (2016) [LIGO Document P1400154] [arXiv: 1605.01707 [astro-ph.HE]]
- [191] *Supplement: Localization and broadband follow-up of the gravitational-wave transient GW150914*  
The LIGO Scientific Collaboration, including **LÁ Gergely** + Virgo Collaboration + Australian Square Kilometer Array Pathfinder (ASKAP) Collaboration + BOOTES Collaboration + Dark Energy Survey and the Dark Energy Camera GW-EM Collaborations + Fermi GBM Collaboration + Fermi LAT Collaboration + GRAvitational Wave Inaf TeAm (GRAWITA) + INTEGRAL Collaboration + Intermediate Palomar Transient Factory (iPTF) Collaboration + InterPlanetary Network + J-GEM Collaboration + La Silla–QUEST Survey + Liverpool Telescope Collaboration + Low Frequency Array (LOFAR) Collaboration + MASTER Collaboration + MAXI Collaboration + Murchison Wide-field Array (MWA) Collaboration +

- Pan-STARRS Collaboration + PESSTO Collaboration + Pi of the Sky Collaboration + SkyMapper Collaboration + Swift Collaboration + TAROT, Zadko, Algerian National Observatory, and C2PU Collaboration + TOROS Collaboration + VISTA Collaboration  
 Subm. to *Astrophys. J. Suppl. Ser.* (2016) [*LIGO Document P1600137*] [*arXiv: 1604.07864*] [*astro-ph.HE*]
- [190] *Comparative testing of dark matter models with 9 HSB and 9 LSB galaxies*  
 E Kun, G Szűcs, Z Keresztes, **LÁ Gergely**  
 Submitted for *Astron. Astrophys.* (2016) [*arXiv: 1604.02465*] [*astro-ph.GA*]
- [189] *The Sensitivity of the Advanced LIGO Detectors at the Beginning of Gravitational Wave Astronomy*  
 The LIGO Scientific Collaboration, including **LÁ Gergely**  
 submitted (2016) [*LIGO Document P1500260*] [*arXiv: 1604.00439*] [*astro-ph.IM*]
- [188] *Localization and broadband follow-up of the gravitational-wave transient GW150914*  
 The LIGO Scientific Collaboration, including **LÁ Gergely** + Virgo Collaboration + Australian Square Kilometer Array Pathfinder (ASKAP) Collaboration + BOOTES Collaboration + Dark Energy Survey and the Dark Energy Camera GW-EM Collaborations + Fermi GBM Collaboration + Fermi LAT Collaboration + GRAvitational Wave Inaf TeAm (GRAWITA) + INTEGRAL Collaboration + Intermediate Palomar Transient Factory (iPTF) Collaboration + InterPlanetary Network + J-GEM Collaboration + La Silla–QUEST Survey + Liverpool Telescope Collaboration + Low Frequency Array (LOFAR) Collaboration + MASTER Collaboration + MAXI Collaboration + Murchison Wide-field Array (MWA) Collaboration + Pan-STARRS Collaboration + PESSTO Collaboration + Pi of the Sky Collaboration + SkyMapper Collaboration + Swift Collaboration + TAROT, Zadko, Algerian National Observatory, and C2PU Collaboration + TOROS Collaboration + VISTA Collaboration  
 Submitted to *Astrophys. J. Lett.* (2016) [*LIGO Document P1500227*] [*arXiv: 1602.08492*] [*astro-ph.HE*]
- [187] *High-energy Neutrino follow-up search of Gravitational Wave Event GW150914 with ANTARES and IceCube*  
 The LIGO Scientific Collaboration, including **LÁ Gergely** + Virgo Collaboration + IceCube Collaboration + ANTARES Collaboration  
 Submitted (2016) [*LIGO Document P1500271*] [*arXiv: 1602.05411*] [*astro-ph.HE*]
- [186] *GW150914: Implications for the stochastic gravitational wave background from binary black holes* **IF=7.512**  
 The LIGO Scientific Collaboration, including **LÁ Gergely** + Virgo Collaboration  
*Phys. Rev. Lett.* **116**, 131102-1-12 (2016) [*LIGO Document P1500222*] [*arXiv: 1602.03847*] [*gr-qc*]
- [185] *Calibration of the Advanced LIGO detectors for the discovery of the binary black-hole merger GW150914*  
 The LIGO Scientific Collaboration, including **LÁ Gergely** + Virgo Collaboration  
 Submitted (2016) [*LIGO Document P1500248*] [*arXiv: 1602.03845*] [*gr-qc*]
- [184] *Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914* **IF=3.168**  
 The LIGO Scientific Collaboration, including **LÁ Gergely** + Virgo Collaboration  
*Class. Quantum Grav.* **33**, 134001-1-34 (2016) [*LIGO Document P1500238*][*arXiv: 1602.03844*] [*gr-qc*]
- [183] *Observing gravitational-wave transient GW150914 with minimal assumptions* **IF=4.643**  
 The LIGO Scientific Collaboration, including **LÁ Gergely** + Virgo Collaboration  
*Phys. Rev. D* **93**, 122004-1-20 (2016) [*LIGO Document P1500229*] [*arXiv: 1602.03843*] [*gr-qc*]
- [182] *Tests of general relativity with GW150914* **IF=7.512**  
 The LIGO Scientific Collaboration, including **LÁ Gergely** + Virgo Collaboration  
*Phys. Rev. Lett.* **116**, 221101-1-19 (2016) [*LIGO Document P1500213*] [*arXiv: 1602.03841*] [*gr-qc*]
- [181] *Properties of the binary black hole merger GW150914* **IF=7.512**  
 The LIGO Scientific Collaboration, including **LÁ Gergely** + Virgo Collaboration  
*Phys. Rev. Lett.* **116**, 241102-1-xx (2016) [*LIGO Document P1500218*] [*arXiv: 1602.03840*] [*gr-qc*]
- [180] *GW150914: First results from the search for binary black hole coalescence with Advanced LIGO*

- The LIGO Scientific Collaboration, including **LÁ Gergely** + Virgo Collaboration **IF=4.643**  
*Phys. Rev. D* **93**, 122003-1-21 (2016) [*LIGO Document P1500269*] [*arXiv: 1602.03839 [gr-qc]*]
- [179] *GW150914: The Advanced LIGO Detectors in the Era of First Discoveries* **IF=7.512**  
 The LIGO Scientific Collaboration, including **LÁ Gergely** + Virgo Collaboration  
*Phys. Rev. Lett.* **116**, 131103-1-12 (2016) [*LIGO Document P1500237*] [*arXiv: 1602.03838 [gr-qc]*]
- [178] *The Rate of Binary Black Hole Mergers Inferred from Advanced LIGO Observations Surrounding GW150914*  
 The LIGO Scientific Collaboration, including **LÁ Gergely** + Virgo Collaboration  
 Submitted to *Astrophys. J. Lett.* (2016) [*LIGO Document P1500217*] [*arXiv: 1602.03842 [astro-ph.HE]*]
- [177] *Astrophysical Implications of the Binary Black Hole Merger GW150914* **IF=5.339**  
 The LIGO Scientific Collaboration, including **LÁ Gergely** + Virgo Collaboration  
*Astrophys. J. Lett.* **818**, L22-1-15 (2016) [*LIGO Document P1500262*] [*arXiv: 1602.03846 [astro-ph.HE]*]
- [176] *Observation of Gravitational Waves from a Binary Black Hole Merger* **IF=7.512**  
 The LIGO Scientific Collaboration, including **LÁ Gergely** + Virgo Collaboration  
*Phys. Rev. Lett.* **116**, 061102-1-16 (2016) [*LIGO Document P150914*] [*arXiv: 1602.03837 [gr-qc]*]
- [175] *First low frequency all-sky search for continuous gravitational wave signals* **IF=4.643**  
 The LIGO Scientific Collaboration, including **LÁ Gergely** + Virgo Collaboration  
*Phys. Rev. D* **93**, 042007-1-25 (2016) [*LIGO Document P1500030*] [*arXiv:1510.03621 [astro-ph.IM]*]
- [174] *All-sky search for long-duration gravitational wave transients with initial LIGO* **IF=4.643**  
 The LIGO Scientific Collaboration, including **LÁ Gergely** + Virgo Collaboration  
*Phys. Rev. D* **93**, 042005-1-19 (2016) [*LIGO Document P1500217*] [*arXiv:1511.04398 [gr-qc]*]
- [173] *Search of the Orion spur for continuous gravitational waves using a loosely coherent algorithm on data from LIGO interferometers* **IF=4.643**  
 The LIGO Scientific Collaboration, including **LÁ Gergely** + Virgo Collaboration  
*Phys. Rev. D* **93**, 042006-1-14 (2016) [*LIGO Document P1500034*] [*arXiv:1510.03474 [gr-qc]*]
- [172] *Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo* **IF=19.250**  
 The LIGO Scientific Collaboration, including **LÁ Gergely** + Virgo Collaboration  
*Living Reviews in Relativity* **19**, 1-1-39 (2016) DOI 10.1007/lrr-2016-1  
 [*LIGO Document P1200087*] [*VIRGO Document VIR-0288A-12*] [*arXiv:1304.0670 [gr-qc]*]
- [171] *Cosmological constraints on superconducting dark energy models* **IF=4.643**  
 Z Keresztes, **LÁ Gergely**, T Harko, S-D Liang  
*Phys. Rev. D* **92**, 123503-1-12 (2015) [*arXiv:1509.00492 [gr-qc]*]
- [170] *Gravitational, shear and matter waves in Kantowski-Sachs cosmologies* **IF=5.810**  
 Z Keresztes, M Forsberg, M Bradley, PKS Dunsby, **LÁ Gergely**  
*J. Cosmol. Astropartic. Phys.* **11** (2015) 042-1-26 [*arXiv:1507.08300 [gr-qc]*]
- [169] *Constraining the parameters of the putative supermassive binary black hole in PG 1302-102 from its radio structure* **IF=5.107**  
 E Kun, S Frey, KE Gabányi, S Britzen, D Cseh, **LÁ Gergely**  
*Mon. Not. Royal Astron. Soc.* **454**, 1290-1296 (2015) [*arXiv:1506.07036 [astro-ph.HE]*]
- [168] *Criticality and Big Brake singularities in the tachyonic evolutions of closed Friedmann universes with cold dark matter* **IF=4.643**  
 Zs Horváth, Z Keresztes, AYu Kamenshchik, **LÁ Gergely**  
*Phys. Rev. D* **91**, 103513-1-7 (2015) [*arXiv:1505.00228 [gr-qc]*]
- [167] *Spinning compact binary dynamics and chameleon orbits* **IF=4.643**  
**LÁ Gergely**, Z Keresztes  
*Phys. Rev. D* **91**, 024012-1-20 (2015) [*arXiv:1411.4057 [gr-qc]*]
- [166] *Bose-Einstein condensate dark matter halos confronted with galactic observations*  
 M Dwornik, Z Keresztes, **LÁ Gergely**

- Submitted to *J. Cosmol. Astropartic. Phys.* JCAP (2014) [arXiv: 1406.0388 [astro-ph.GA]]
- [165] *Brane-world stars with solid crust and vacuum exterior* **IF=3.168**  
 J Ovalle, **LÁ Gergely**, R Casadio  
*Class. Quantum Grav.* **32**, 085011-1-19 (2015) [arXiv:1405.0252 [gr-qc]]
- [164] *Searches for continuous gravitational waves from nine young supernova remnants* **IF=5.993**  
 The LIGO Scientific Collaboration, including **LÁ Gergely** + Virgo Collaboration  
*Astrophys. J.* **813**, 39-1-16 (2015) [LIGO Document P1400182] [arXiv:1412.5942 [astro-ph.HE]]
- [163] *A directed search for gravitational waves from Scorpius X-1 with initial LIGO* **IF=4.643**  
 The LIGO Scientific Collaboration, including **LÁ Gergely** + Virgo Collaboration  
*Phys. Rev. D* **91**, 062008-1-20 (2015) [LIGO Document P1400094] [arXiv:1412.0605 [gr-qc]]
- [162] *Advanced LIGO* **IF=3.168**  
 The LIGO Scientific Collaboration, including **LÁ Gergely**  
*Class. Quantum Grav.* **32**, 074001-1-41 (2015) [LIGO Document P1400177] [arXiv:1411.4547 [gr-qc]]
- [161] *Narrow-band search of continuous gravitational-wave signals from Crab and Vela pulsars in Virgo VSR4 data run* **IF=4.643**  
 The LIGO Scientific Collaboration, including **LÁ Gergely** + Virgo Collaboration  
*Phys. Rev. D* **91**, 022004-1-15 (2015) [LIGO Document P1400045] [arXiv:1410.8310 [astro-ph.IM]]
- [160] *Characterization of the LIGO detectors during their sixth science run* **IF=3.168**  
 The LIGO Scientific Collaboration, including **LÁ Gergely** + Virgo Collaboration  
*Class. Quantum Grav.* **32**, 115012-1-xx (2015) [LIGO Document P1400142] [arXiv:1410.7764 [gr-qc]]
- [159] *Searching for stochastic gravitational waves using data from the two co-located LIGO Hanford detectors* **IF=4.643**  
 The LIGO Scientific Collaboration, including **LÁ Gergely** + Virgo Collaboration  
*Phys. Rev. D* **91**, 022003-1-22 (2015) [LIGO Document P1000112] [arXiv:1410.6211 [gr-qc]]
- [158] *Perturbations of Kantowski-Sachs models*  
 M Bradley, M Forsberg, Z Keresztes, **LÁ Gergely**, PKS Dunsby  
*Proceedings of the Thirteenth Marcel Grossman Meeting on General Relativity*, 1-7 July, 2012, Stockholm, Sweden, Eds. RT Jantzen, K Rosquist, R Ruffini, *World Scientific* Singapore, p. 2547-2549 (2015) [arXiv:1303.4576 [gr-qc]]
- [157] *The paradox of soft singularity crossing avoided by distributional cosmological quantities*  
 A Kamenshchik, Z Keresztes, **LÁ Gergely**  
*Proceedings of the Thirteenth Marcel Grossman Meeting on General Relativity*, 1-7 July, 2012, Stockholm, Sweden, Eds. RT Jantzen, K Rosquist, R Ruffini, *World Scientific* Singapore, p. 1847-1849 (2015) [arXiv:1302.3950 [gr-qc]]
- [156] *Bose-Einstein condensate dark matter model tested by galactic rotation curves*  
 M Dwornik, Z Keresztes, **LÁ Gergely**  
*Proceedings of the Thirteenth Marcel Grossman Meeting on General Relativity*, 1-7 July, 2012, Stockholm, Sweden, Eds. RT Jantzen, K Rosquist, R Ruffini, *World Scientific* Singapore, p. 1279-1281 (2015) [arXiv:1301.6614 [gr-qc]]
- [155] *Gravitational waveforms for unequal mass black hole binaries detectable by KAGRA*  
 M Tápai, Z Keresztes, **LÁ Gergely**  
*Proceedings of the Thirteenth Marcel Grossman Meeting on General Relativity*, 1-7 July, 2012, Stockholm, Sweden, Eds. RT Jantzen, K Rosquist, R Ruffini, *World Scientific* Singapore, p. 957-959 (2015) [arXiv:1212.4973 [gr-qc]]
- [154] *Black hole binary dynamics and their gravitational radiation - in Hungarian*  
**LÁ Gergely**, Z Keresztes  
 Submitted to KIH/WSA volume (2015)
- [153] *A bivalent tachyonic dark energy scalar field model and its combined cosmological tests*  
 Z Keresztes, **LÁ Gergely** - in Hungarian  
 Submitted to KIH/WSA volume (2015)

- [152] *Effective field theory of modified gravity on spherically symmetric background: leading order dynamics and the odd mode perturbations* **IF=4.643**  
R Kase, **LÁ Gergely**, S Tsujikawa  
Phys. Rev. D **90**, 124019-1-21 (2014) [arXiv:1406.2402 [hep-th]]
- [151] *Combined cosmological tests of a bivalent tachyonic dark energy scalar field model* **IF=5.810**  
Z Keresztes, **LÁ Gergely** [arXiv:1408.3736 [astro-ph.CO]]  
J. Cosmol. Astropartic. Phys. JCAP **11** (2014) 026-1-24 doi:10.1088/1475-7516/2014/11/026
- [150] *A single radio-emitting active nucleus in the dual AGN candidate NGC 5515* **IF=5.107**  
KÉ Gabányi, S Frey, T Xiao, Z Paragi, T An, E Kun, **LÁ Gergely**  
Mon. Not. Royal Astron. Soc. **443** (1), 1509-1514 (2014) doi: 10.1093/mnras/stu1234  
[arXiv:1406.5113 [astro-ph.GA]]
- [149] *A spinning supermassive black hole binary model consistent with VLBI observations of the S5 1928+738 jet* **IF=5.107**  
E Kun, KÉ Gabányi, M Karouzos, S Britzen, **LÁ Gergely**  
Mon. Not. Royal Astron. Soc. **445** (2), 1370-1382 (2014) doi:10.1093/mnras/stu1813  
[arXiv:1402.2644 [astro-ph.HE]]
- [148] *Effective field theory of modified gravity with two scalar fields: dark energy and dark matter* **IF=4.643**  
**LÁ Gergely**, S Tsujikawa  
Phys Rev. D **89**, 064059-1-18 (2014) [arXiv:1402.0553 [hep-th]]
- [147] *Application of a Hough search for continuous gravitational waves on data from the 5th LIGO science run* **IF=3.168**  
The LIGO Scientific Collaboration, including **LÁ Gergely** + Virgo Collaboration  
Class. Quantum Grav. **31**, 085014-1-35 (2014) [LIGO Document P1300071] [arXiv:1311.2409 [gr-qc]]
- [146] *Constraints on cosmic strings from the LIGO-Virgo gravitational-wave detectors* **IF=7.512**  
The LIGO Scientific Collaboration, including **LÁ Gergely** + Virgo Collaboration  
Phys Rev. Lett. **112**, 131101-1-4 (2014) [LIGO Document P1300093] [arXiv:1310.2384 [gr-qc]]
- [145] *First Searches for Optical Counterparts to Gravitational-wave Candidate Events* **IF=11.215**  
The LIGO Scientific Collaboration, including **LÁ Gergely** + Virgo Collaboration  
Astrophys. J. Suppl. **211**, 7-1-25 (2014) [LIGO Document P1200171] [arXiv:1310.2314 [astro-ph.IM]]
- [144] *Gravitational-waves from known pulsars: results from the initial detector era* **IF=5.993**  
The LIGO Scientific Collaboration, including **LÁ Gergely** + Virgo Collaboration  
Astrophys. J. **785**, 119-1-18 (2014) [LIGO Document P1200104] [arXiv:1309.4027 [astro-ph.HE]]
- [143] *Soft singularity crossing and transformation of matter properties*  
Z Keresztes, **LÁ Gergely**, AZ Kamenshchik, V Gorini, D Polarski  
Proceedings of the II Russian-Spanish Congress on Particle and Nuclear Physics at all Scales, Astroparticle Physics and Cosmology, 1-4 October 2013, St. Petersburg, Russia, ISBN: 978-0-7354-1242-2, Eds. A Andrianov, D Espriu, V Andrianov, S Kolevatov  
AIP Conf. Proc. **1606** 79-86 (2014)
- [142] *Rotation curves in Bose-Einstein condensate dark matter halos*  
M Dwornik, Z Keresztes, **LÁ Gergely**  
Chapter 6 of "Recent Development in Dark Matter Research", Eds. N. Kinjo, A. Nakajima,  
Nova Science Publishers, p. 195-219 (2014) [arXiv:1312.3715 [gr-qc]]
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