

Dr. Hüsne Dereli-Bégué

Curriculum Vitae

Personal details

Date of birth: **August 10, 1982**
Birth place: **Hekimhan, Malatya**
Status: **Married with two kids**
Address: **Department of Physics, Bar-Ilan University**
Ramat-Gan 52900, Israel
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Research Interests

- High Energy Astrophysics
- **Astronomical objects;** Gamma Ray Bursts (GRBs), Supernovae (SNe), Active Galactic Nuclei (AGNs)
- **Unstructured data;** Gamma-ray, X-ray, Optical as well as the electromagnetic (EM) counter part of gravitational waves (GW) from the GRBs
- **Statistical studies;** sample selection, correlation analysis
- **Analysis and data reduction techniques;** HeaSoft package, IRAF
- **Astronomical catalogs, surveys;** Fermi-GBM and LAT, Swift-BAT-XRT-UVOT

Professional Positions

2020–present **Postdoc in Astrophysics**, *Department of Physics, Bar-Ilan University, Ramat Gan, ISRAEL*. Working with Prof. Dr. Asaf Pe'er.

2018–2020 **Guest-Postdoc in High-Energy Astrophysics**, *MPE: Max Planck Institute for Extraterrestrial Physics, Garching, GERMANY*. In agreement with Prof. Dr. Jochen Greiner.

2015–2017 **Postdoc in AstroPhysics**, *KTH Royal Institute of Technology, Stockholm, SWEDEN*. Worked with Prof. Dr. Felix Ryde.

Education

2011–2014 **Ph.D. in AstroPhysics**, *University of Nice, Nice, FRANCE*, Erasmus Mundus IRAP fellowship.

Title: *Study of a Population of Gamma-ray Bursts with Low-Luminosity Afterglows*

Degree: **Very Honorable**

Supervisors: Prof. Dr. Michel Boër and Dr. Bruce Gendre, ARTEMIS/OCA-Nice, FRANCE & Prof. Dr. Massimo Della Valle, INAF-Naples, ITALY & ICRANet

2008–2010 **M.Sc. in AstroPhysics**, *University of Çukurova, Adana, TURKEY*.

Title: *Observation of Medium-High Redshift AGNs and Their Impact on Cosmology*

Supervisors: Prof. Dr. Aysun Akyüz, University of Çukurova, Adana, TURKEY & Dr. Denis Bastieri, University of Padova, Padua, ITALY

2002–2006 **B.Sc. Degree in Physics**, *University of Çukurova, Adana, TURKEY*.

2005–2010 **Associate Degree in Finance - Banking and Insurance**, *the University of Anadolu, Eskisehir, TURKEY*.

References

- Prof. Dr. Asaf Pe'er, Department of Physics, Bar-Ilan University, Tel Aviv, Israel.

E-mail: asaf.peer@biu.ac.il

- Prof. Dr. Felix Ryde, Royal Institute of Technology (KTH), Stockholm, Sweden.
Phone: + (46) 0855378545, Fax: + (46) 0855378510

E-mail: fryde@kth.se

- Dr. Bruce Gendre, University of Western Australia, M013, 35 Stirling Hw, Crawley, WA 6009, Australia.

E-mail: bruce.gendre@gmail.com

- Prof. Dr. Aysun Akyüz, Department of Physics, Çukurova University, Adana, Turkey.
Phone: + (90) 03223386171/2691, Fax: + (90)03223386070

E-mail: aakyuz@cu.edu.tr

Awards & Honors

2016 The 2016 Special Breakthrough Prize in Fundamental Physics shared with LIGO collaboration

2015–2016 TUBITAK Post Doctoral fellowship, TURKEY

2011–2014 Erasmus Mundus IRAP PhD fellowship

2009 Erasmus Student Mobility for Studies (SMS) in Padova, ITALY, from the 2nd of February to the 31st June

2009 Erasmus Student Mobility for Placements (SMP) in Padova, ITALY, from the 1st of July to the 31st of September

2002–2006 The Prime Ministry Scholarship, Adana, TURKEY

Observational Awards in TUG with Antalya Optical Telescopes (T100, T60, RTT150)

- ① Optical observations of the blazar PKS 1424+240.

Period: May-June-July 2016, TUG, TURKEY

- ② Target Opportunity Observations for optical follow up of blazar flares.

Period: June-July-August-September 2016, TUG, TURKEY

- ③ Target Opportunity Observations for optical follow up of blazar flares.
Period: October-November-December 2016 - January 2017, TUG, TURKEY
- ④ Optical observations of the blazars PKS 0716+174 and 1ES 0806+524.
Period: November-December 2016 - January 2017, TUG, TURKEY
- ⑤ Target Opportunity Observations for optical follow up of blazar flares.
Period: February-March-April-May 2017, TUG, TURKEY
- ⑥ Target Opportunity Observations for optical follow up of blazar flares.
Period: June-July-August-September 2017, TUG, TURKEY
- ⑦ Target Opportunity Observations for optical follow up of blazar flares.
Period: October-November-December 2016 - January 2018, TUG, TURKEY
- ⑧ Target Opportunity Observations for optical follow up of blazar flares.
Period: February-March-April-May 2018, TUG, TURKEY

Computer skills

Graphics and computations Python, Jupyter notebooks, C, Gnuplot, ROOT, Matlab, git/github, bash

Data analysis tools Fermi Science Tools, RMFit, HeaSoft package (FTOOLS), Xspec, IRAF (SNOOPY:daophot, APELL)

Statistic Frequentist methods, Bayesian inference

Languages

Turkish	Mother tongue	
English	Advanced	
Italian	Basic	<i>Basic words and phrases only</i>
French	Good	
German	Basic	<i>Basic words and phrases only</i>

Active Memberships:

- Gravitational wave (GW) group at the Bar Ilan University
- SRG Turkey working group
- Fermi-LAT and Fermi-GBM science working groups
- THESEUS Multi-Messenger Astrophysics Working Group
- Athena Science Working Groups (SWG2.6 Luminous extra-galactic transients)

Presentations at international meetings

- "The X-ray plateau phase of gamma-ray burst originating from an expanding shell with a Lorentz factor of a few tens" at the 67th Annual meeting of the Israel Physical Society, 22nd February **2022**, Ben-Gurion University of the Negev, Israel.
- "What is the origin of the GRB plateau phase?" Mini-workshop on GRBs and machine learning, 29th July **2021**, Tokyo, JAPAN (online **invited talk**)
- "The GRB plateau emission naturally explained within the classical fireball model" at the 16th Marcel Grossmann Meeting, 5-10 July **2021**, Rome, ITALY (online **invited talk at the Section GB7**)
- "Classification of Photospheric Emission in sGRBs" at the 16th Marcel Grossmann Meeting, 5-10 July **2021**, Rome, Italy (online **invited talk at the Section GB3**)
- "Classification of Photospheric Emission in Short Gamma-ray Bursts" at the 66th Annual meeting of the Israel Physics Society, 22nd February **2021** (online meeting)
- "Bayesian Time-Resolved Spectroscopy of GRB Pulses: α -Intensity Correlation", at the Yokohama GRB-GW 2019 conference, 28 October-1 November **2019** Yokohama, Kanagawa, JAPAN
- "A Study of GRBs with Low-luminosity Afterglows", at the Deciphering the Violent Universe (DVU) conference, 11-15 December **2017**, Playe del Carmen, MEXICO
- "Variability in GRB light curves: Poisson Orthogonal Matching Pursuit", at the Virgin Islands University, on the 25th of April **2016**, 2 John Brewers Bay, 00802, St Thomas, U.S. Virgin Islands
- "Are Low Luminosity Afterglow Gamma-Ray Bursts (GRBs) different?", at 40th COSPAR Scientific Assembly, 2 - 10 August **2014**, Moscow, RUSSIA
- "What are the Under Luminous GRBs?", at the Gamma-Ray Bursts in the Multi-Messenger Era, 16 - 19 June **2014**, Paris, FRANCE
- "Physics and Nature of Under-Luminous Gamma-Ray Bursts", at the Supernovae, Gamma-ray bursts and the induced gravitational collapse 11 - 16 May **2014** - Les Houches, FRANCE
- "Diversity of Progenitor for Long GRBs: Statistical study of the Under Luminous Events" at the Erasmus Mundus IRAP PhD School, 2 - 20 September **2013**, Nice University, Nice, FRANCE
- "Diversity of Progenitor for Long GRBs: The Under Luminous Events", at the 2nd ICRANet Bego meeting, 13 - 31 May **2013**, Nice, FRANCE
- 1-) "The Type IIb SN 2004ex: spectral and light curve evolution", 2-) "Template analysis of observational data dedicated to the association between GRBs and Supernovae", at the Erasmus Mundus IRAP PhD School, 3 - 21 September **2012**, Nice University, Nice, FRANCE

Presentations at national meetings

- ① "Properties of Low Luminosity Afterglow GRBs", at the 19. National Astronomy and the 8. Student National Congress, the 2-6 February **2016**, METU, Ankara, TURKEY

- ② "Photometric and spectroscopic evolution of SN 2004ex (IIfb)", at the XVIII. National Astronomy and Space Science Congress, 27 August - 1 September **2012**, Inonu University, Malatya, TURKEY
- ③ "Observation of AGN 3C 454.3 by Fermi/ LAT satellites", at the 1st Workshop of Magnetic and Hydrodynamic Processes in Astrophysics, 1 - 3 February **2010**, Ege University, Izmir, TURKEY
- ④ "Cosmic Journey in the Universe, on behalf of Student Astronomical Community of Çukurova University" at the II. spring festival of Kilis University, 1 - 13 May **2010**, Kilis, TURKEY

Trainings

- Registered to the online GW Open Data Workshop, 23-25 May **2022** to train on the gravitational wave data and learn the analysis tools.
- Attendance to conference called Astro Hack Week 2019 to train on Bayesian inference and Machine learning, 26-30 August **2019**, Cambridge, UK.
- Attendance to the training on git/github, bash, python, March-May **2019**, MPE, Garching, GERMANY
- Attendance to the training on the analysis of SNe data taken by the Zadko telescope, with the Audela program given by Alian Klotz, 17 - 18 January **2013**, OHP, FRANCE
- Attendance to the training on the analysis of SNe data taken by the Zadko telescope, with the Audela program given by Alian Klotz, 17 - 18 January **2013**, OHP, FRANCE
- Attendance to the training on the analysis of GRBs data taken by the TAROT telescope, with the Audela program and introduction to the Zadko telescope given by Alian Klotz, 3 - 7 December, **2012**, IRAP, Toulouse, FRANCE
- Attendance to the introduction to the TAROT telescopes and to database given by Alian Klotz, 25 - 26 October, **2012**, OHP, FRANCE
- Mobility of PhD, Photometric and Spectroscopic data analysis of SNe, from the 31st of October **2011** to the 1st of October **2012** Naples Observatory, Naples & ICRANet, Pescara, ITALY
- To work with Dr. Michel Boer on the gravitational and electromagnetic signature from the gamma-ray bursts, 7th-28th of October, **2011**, ARTEMIS/OCA, Nice, FRANCE, .

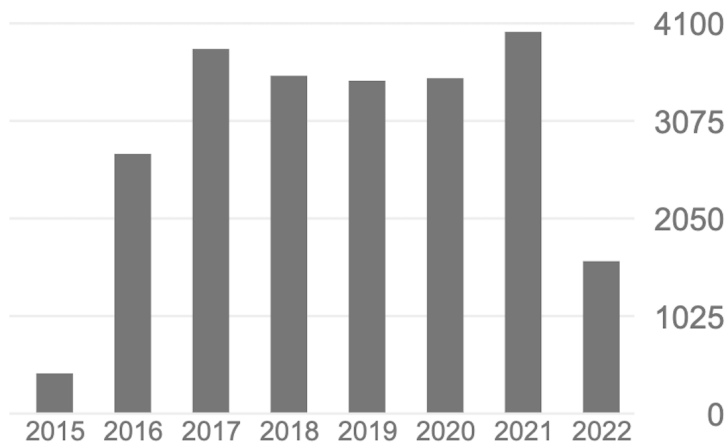
PUBLICATION LIST

○ **Hüsne Dereli Bégué** <https://scholar.google.com>

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Cited by

	All	Since 2017
Citations	23704	20004
h-index	37	32
i10-index	44	43



* Impact of the Publications taken from google scholar on the 15th of May 2022

- **Dereli-Bégué H.**, Pe'er A., & Ryde F., Oates S., Zhang B., & Dainotti M.-G. "The X-ray plateau phase of gamma-ray burst originating from an expanding shell with a Lorentz factor of a few tens " June 2022 accepted by the **Nature Communications**
- Ciolfi R., Stratta G., Branchesi M., Gendre B., Grimm S., Harms J., Lamb G.-P., ... **Dereli-Bégué H.**, et al. "Multi-Messenger Astrophysics with THESEUS in the 2030s", 2021, Experimental Astronomy, 52, 3, 245
- Yu H.-F., **Dereli-Bégué H.**, & Ryde F., "VizieR Online Data Catalog: Bayesian time-resolved spectra of Fermi GBM pulses (Yu+, 2019) " 03/2021, VizieR Online Data Catalog, J/Ap.J., 886, 20
- **Dereli-Bégué H.**, Pe'er A., & Ryde F., "Classification of Photospheric Emission in Short GRBs", 2020, **ApJ**, 897, 2
- Ryde F., Yu H.-F., **Dereli-Bégué H.**, Lundman C., Pe'er A., & Li L., "On the α -Intensity Correlation in Gamma-Ray Bursts: Subphotospheric Heating with Varying Entropy", 2019, **MNRAS**, 484, 1912
- Yu H.-F., **Dereli-Bégué H.**, & Ryde F., "Bayesian Time-Resolved Spectra of GRB Pulses", 2019, **ApJ**, 886, 20

- **Dereli, H.**, Boër, M., Gendre, B., Amati, L., Dichiara, S., & Orange, N. B., "A study of GRBs with low Luminosity afterglows", 2017, **ApJ**, 850, 2
- **Ph.D. thesis: Dereli, H.**, "Study of a Population of Gamma-ray Bursts with Low-Luminosity Afterglows", 2015, arXiv:1503.04580
- Ruffini, R., Izzo, L., Bianco C.L., Rueda, J.A., Barbarino C., **Dereli, H.** et al., "Induced Gravitational Collapse in the BATSE era: the case of GRB 970828", 2015, **Astronomy Reports**, 59, 7
- Izzo, L., Ruffini, R., Bianco, C. L., **Dereli, H.**, et al. "On the thermal and double episode emissions in GRB 970828", 2012a, ApJ, submitted (arXiv:1205.6651)
- **M.Sc. thesis: Dereli, H.**, "Observation of Medium-High Redshift Active Galactic Nuclei and their Impact on Cosmology", 2010, at Çukurova University
- Abdo, A. A., Ackermann, M., and Ajello, M., et al., (**Dereli H.**), "Fermi Large Area Telescope Measurements of the Diffuse Gamma-Ray Emission at Intermediate Galactic Latitudes", 2009, **Physical review letters**, 103, 25
- Ögelman, H., Asaker, N., Anilin, S., **Dereli, H.**, et al., "Discovery of Gamma-Ray Emission from M31 with The Fermi-LAT", 2011, **AIPC**, 1379, 82
- **Book: Dereli, H.**, "Observations of high redshift AGNs and their impact on cosmology", 2011, LAP Lambert Academic Publishing

Proceedings

- ① **Dereli-Bégué H.**, Yu H.-F., & Ryde F., "Bayesian Time-Resolved Spectroscopy of GRB Pulses: α -Intensity Correlation", Proceeding for a poster presented at the Yokohama GRB-GW 2019 conference, held 28 October-1 November **2019** Yokohama, Kanagawa, JAPAN. arXiv:2006.03797
- ② Yu H.-F., Ryde F., **Dereli H.**, "An Investigation on the GRB Peak Energy and Low-Energy Spectral Slope" Proceeding of the 7th International Fermi Symposium, held 15-20 October **2017**, in Garmisch-Partenkirchen, Germany, <https://pos.sissa.it/312/083/>
- ③ **Dereli, H.**, Boër, M., Gendre, B., L. Amati, L., & Dichiara, S., "Properties of Low Luminosity Afterglow GRBs", Proceedings of Swift: 10 Years of Discovery (SWIFT 10), held 2-5 December **2014** at La Sapienza University, Rome, ITALY. Online at <http://pos.sissa.it/cgi-bin/reader/conf.cgi?confid=233>, id.72
- ④ **Dereli, H.**, et al., 2010, "Observation of B2 1520+31 with the Fermi-LAT Telescope", Proceeding of the XVII. National Astronomy and the VI. Student National Congress, held from the 31th of August - 4th of September **2010**, UZAYMER, Çukurova University, Adana, TURKEY
- ⑤ **Dereli, H.**, et al., 2009, "Observation of 3C454.3 with the Fermi-LAT Telescope", Proceeding of the ICYA 2009, 7-13 September **2009**, Cracow, POLAND, <http://www.icya2009.org/resources>

The list of (34) GRB Coordinates Network (GCN) reports in TAROT-Zadko collaboration

- **Dereli, H.**, Klotz, A., MacPherson, D., et al., "report: GRB 130315A: zadko observatory - gingin optical observations", 2013, **GCN: 14330**
- **Dereli, H.**, Klotz, A., MacPherson, D., et al., "GRB 130408A: Zadko observatory - Gingin optical observations", 2013, **GCN: 14372**
- Gendre, B., **Dereli, H.**, Atteia, J. L., Boer, M., Klotz, A. "GRB 130215A: TAROT La Silla observatory optical observations", 2013, **GCN: 14213**
- Klotz A., **Dereli, H.** et al., "GRB 150203A: TAROT La Silla observatory optical observations.", 2015, **GCN: 17387**
- Klotz A., **Dereli, H.** et al., "GRB 150103A: Zadko observatory-Gingin optical observations.", 2015, **GCN: 17273**
- Klotz A., **Dereli, H.** et al., "GRB 150222A: Zadko observatory-Gingin optical observations.", 2015, **GCN: 17488**
- Klotz A., **Dereli, H.** et al., "GRB 140302A: TAROT La Silla observatory optical observations.", 2014, **GCN: 16060**
- Klotz A., **Dereli, H.** et al., "GRB 141015A: TAROT La Silla observatory optical observations.", 2014 , **GCN: 17066**
- Klotz A., **Dereli, H.** et al., "GRB 141015A: TAROT La Silla observatory optical observations.", 2014, **GCN: 17066**
- Klotz A., **Dereli, H.** et al., "GRB 140628A: Zadko observatory-Gingin optical observations.", 2014, **GCN: 16474**
- Klotz A., **Dereli, H.** et al., "GRB 140311B: TAROT calern observatory optical observations.", 2014, **GCN: 15955**
- Klotz A., **Dereli, H.** et al., "GRB 140331A: Zadko observatory-Gingin optical observations.", 2014, **GCN: 16057**
- Klotz A., **Dereli, H.** et al., "GRB 140622A: TAROT La Silla observatory optical observations.", 2014, **GCN: 16468**
- Klotz A., **Dereli, H.** et al., "GRB 141017A: Zadko observatory-Gingin optical observations.", 2014, **GCN: 16920**
- Klotz A., **Dereli, H.** et al., "GRB 141225A: TAROT Calern observatory optical observations.", 2014, **GCN: 17243**
- Klotz A., **Dereli, H.** et al., "GRB 140719B: Zadko observatory-Gingin optical observations.", 2014, **GCN: 16610**
- Klotz A., **Dereli, H.** et al., "GRB 141212A: Zadko observatory-Gingin optical observations.", 2014, **GCN: 17184**
- Klotz A., **Dereli, H.** et al., "GRB 140311A: zadko observatory-gingin optical observations.", 2014, **GCN: 15952**
- Klotz A., **Dereli, H.** et al., "GRB 130929A: TAROT la silla observatory optical observations.", 2013, **GCN: 15270**

- Klotz A., **Dereli, H.** et al., "GRB 130615A: zadko observatory-gingin optical observations.", 2013, **GCN: 14906**
- Klotz A., **Dereli, H.** et al., "GRB 130313A: zadko observatory-gingin optical observations.", 2013, **GCN: 14295**
- Klotz A., **Dereli, H.** et al., "GRB 130418A: TAROT calern and TAROT la silla observatory optical observations.", 2013, **GCN: 14382**
- Klotz A., **Dereli, H.** et al., "GRB 131218A: TAROT la silla observatory optical observations.", 2013, **GCN: 15602**
- Klotz A., **Dereli, H.** et al., "GRB 130521A: TAROT la silla observatory optical observations.", 2013, **GCN: 14692**
- Klotz A., **Dereli, H.** et al., "GRB 130605A: TAROT la silla observatory optical detection of the afterglow.", 2013, **GCN: 14775**
- Klotz A., **Dereli, H.** et al., "GRB 130612A: TAROT la silla observatory optical observations.", 2013, **GCN: 14883**
- Klotz A., **Dereli, H.** et al., "GRB 131030A: TAROT la silla observatory optical observations.", 2013, **GCN: 15419**
- Klotz A., **Dereli, H.** et al., "GRB 130206A: zadko observatory-gingin optical observations.", 2013, **GCN: 14185**
- Klotz A., **Dereli, H.** et al., "GRB 131108A: TAROT-calern optical observation.", 2013, **GCN: 15473**
- Klotz A., **Dereli, H.** et al., "GRB 131218A: zadko observatory-gingin optical candidate.", 2013, **GCN: 15603**
- Klotz A., **Dereli, H.** et al., "GRB 130612A: zadko observatory-gingin optical observations.", 2013, **GCN: 14885**
- Klotz A., **Dereli, H.** et al., "GRB 131205A: zadko observatory-gingin optical observations.", 2013, **GCN: 15579**
- Klotz A., **Dereli, H.** et al., "GRB 130131B: TAROT calern observatory optical observations.", 2013, **GCN: 14162**
- Klotz A., **Dereli, H.** et al., "GRB 130610A: TAROT la silla observatory optical observations.", 2013, **GCN: 14908**

List of (40) Referred Publications in Gravitational wave collaboration

- Abbott B.P., ..., **Dereli H.**, et al. (965 more), "The rate of binary black hole mergers inferred from advanced LIGO observations surrounding GW150914", 2016, ApJL, 833, L1
- Abbott B.P., ..., **Dereli H.**, et al. (965 more), "Supplement: The Rate of Binary Black Hole Mergers Inferred from Advanced LIGO Observations Surrounding GW150914 (2016, ApJL, 833, L1)", 2016, ApJS, 227, 2
- Abbott B.P., ..., **Dereli H.**, et al. (964 more), "Characterization of transient noise in Advanced LIGO relevant to gravitational wave signal GW150914", 2016, Classical and Quantum Gravity, 33, L13

- Abbott B.P., ..., **Dereli H.**, et al. (1576 more), "Supplement: Localization and Broadband Follow-up of the Gravitational-wave Transient GW150914 (2016, ApJL, 826, L13)", 2016, ApJS, 225, 1
- Abbott B.P., ..., **Dereli H.**, et al. (1576 more), "Localization and broadband follow-up of the gravitational-wave transient GW150914", 2016, ApJL, 826, 1, L13
- Abbott B.P., ..., **Dereli H.**, et al. (988 more), "Properties of the binary black hole merger GW150914", 2016, Physical review letters, 116 , 24
- Abbott B.P., ..., **Dereli H.**, et al. (980 more), "Tests of general relativity with GW150914", 2016, Physical review letters, 116, 22
- Adrián-Martínez S., ..., **Dereli H.**, et al. (1399 more), "High-energy neutrino follow-up search of gravitational wave event GW150914 with ANTARES and IceCube", 2016, Physical Review D, 93, 12
- Abbott B.P., ..., **Dereli H.**, et al. (968 more), "Observing gravitational-wave transient GW150914 with minimal assumptions", 2016, Physical Review D, 93, 12
- Abbott B.P., ..., **Dereli H.**, et al. (980 more), "GW150914: First results from the search for binary black hole coalescence with Advanced LIGO", 2016, Physical Review D, 93, 12
- Abbott B.P., ..., **Dereli H.**, et al. (959 more), "GW150914: The advanced LIGO detectors in the era of first discoveries", 2016, Physical review letters, 116, 13
- Abbott B.P., ..., **Dereli H.**, et al. (957 more), "GW150914: Implications for the stochastic gravitational-wave background from binary black holes", 2016, Physical review letters, 116, 13
- Abbott B.P., ..., **Dereli H.**, et al. (1011 more), "Observation of Gravitational Waves from a Binary Black Hole Merger", 2016, Physical review letters, 116, 6
- Aasi J., ..., **Dereli H.**, et al. (922 more), "First low frequency all-sky search for continuous gravitational wave signals", 2016, Physical Review D, 93, 4
- Aasi J., ..., **Dereli H.**, et al. (919 more), "Search of the Orion spur for continuous gravitational waves using a loosely coherent algorithm on data from LIGO interferometers", 2016, Physical Review D, 93, 4
- Abbott B.P., ..., **Dereli H.**, et al. (936 more), "All-sky search for long-duration gravitational wave transients with initial LIGO", 2016, Physical Review D, 93, 4
- Abbott B.P., ..., **Dereli H.**, et al. (944 more), "Prospects for Observing and Localizing Gravitational-Wave Transients with Advanced LIGO and Advanced Virgo", 2016, Living Reviews in Relativity, 19, 1
- Abbott B.P., ..., **Dereli H.**, et al. (963 more), "Astrophysical Implications of the Binary Black-hole Merger GW150914", 2016, ApJ, 818, 22
- Aasi J., ..., **Dereli H.**, et al. (892 more), "Searches for Continuous Gravitational Waves from Nine Young Supernova Remnants", 2015, ApJ, 813, 1
- Aasi J., ..., **Dereli H.**, et al. (868 more), "Characterization of the LIGO detectors during their sixth science run", 2015, Classical and Quantum Gravity, 32, 11
- Aasi J., ..., **Dereli H.**, et al. (900 more), "Directed search for gravitational waves from Scorpius X-1 with initial LIGO data", 2015, Physical Review D, 91, 6

- Aasi J., ..., **Dereli H.**, et al. (897 more), "Narrow-band search of continuous gravitational-wave signals from Crab and Vela pulsars in Virgo VSR4 data", 2015, Physical Review D, 91, 2
- Aasi J., ..., **Dereli H.**, et al. (875 more), "Searching for stochastic gravitational waves using data from the two colocated LIGO Hanford detectors", 2015, Physical Review D, 91, 2
- Acernese F., ..., **Dereli H.**, et al. (232 more), "Advanced Virgo: a second-generation interferometric gravitational wave detector", 2015, Classical and Quantum Gravity, 32, 2
- Aasi J., ..., **Dereli H.**, et al. (847 more), "Improved Upper Limits on the Stochastic Gravitational-Wave Background from 2009-2010 LIGO and Virgo Data", 2014, Physical review letters, 113, 23
- Aartsen M.G., ..., **Dereli H.**, et al. (1185 more), "Multimessenger search for sources of gravitational waves and high-energy neutrinos: Initial results for LIGO-Virgo and IceCube", 2014, Physical Review D, 90, 10
- Aasi J., ..., **Dereli H.**, et al. (850 more), "First all-sky search for continuous gravitational waves from unknown sources in binary systems", 2014, Physical Review D, 90, 6
- Aasi J., ..., **Dereli H.**, et al. (847 more), "Implementation of an F-statistic all-sky search for continuous gravitational waves in Virgo VSR1 data", 2014, Classical and Quantum Gravity, 31, 16
- Accadia T., ..., **Dereli H.**, et al. (193 more), "Reconstruction of the gravitational wave signal $h(t)$ during the Virgo science runs and independent validation with a photon calibrator", 2014, Classical and Quantum Gravity, 31, 16
- Aasi J., ..., **Dereli H.**, et al. (900 more), "Search for Gravitational Waves Associated with γ -ray Bursts Detected by the Interplanetary Network", 2014, Physical review letters, 113, 1
- Aasi J., ..., **Dereli H.**, et al. (892 more), "Methods and results of a search for gravitational waves associated with gamma-ray bursts using the GEO 600, LIGO, and Virgo detectors", 2014, Physical Review D, 89, 12
- Aasi J., ..., **Dereli H.**, et al. (848 more), "Search for gravitational radiation from intermediate mass black hole binaries in data from the second LIGO-Virgo joint science run", 2014, Physical Review D, 89, 12
- Aasi J., ..., **Dereli H.**, et al. (886 more), "The NINJA-2 project: detecting and characterizing gravitational waveforms modelled using numerical binary black hole simulations", 2014, Classical and Quantum Gravity, 31, 11
- Aasi J., ..., **Dereli H.**, et al. (851 more), "Search for gravitational wave ringdowns from perturbed intermediate mass black holes in LIGO-Virgo data from 2005-2010", 2014, Physical Review D, 89, 10
- Aasi J., ..., **Dereli H.**, et al. (878 more), "Constraints on Cosmic Strings from the LIGO-Virgo Gravitational-Wave Detectors", 2014, Physical review letters, 114, 13

- Aasi J., ..., **Dereli H.**, et al. (876 more), "Application of a Hough search for continuous gravitational waves on data from the fifth LIGO science run", 2014, Classical and Quantum Gravity, 31, 8
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