RESEARCH & PUBLICATIONS

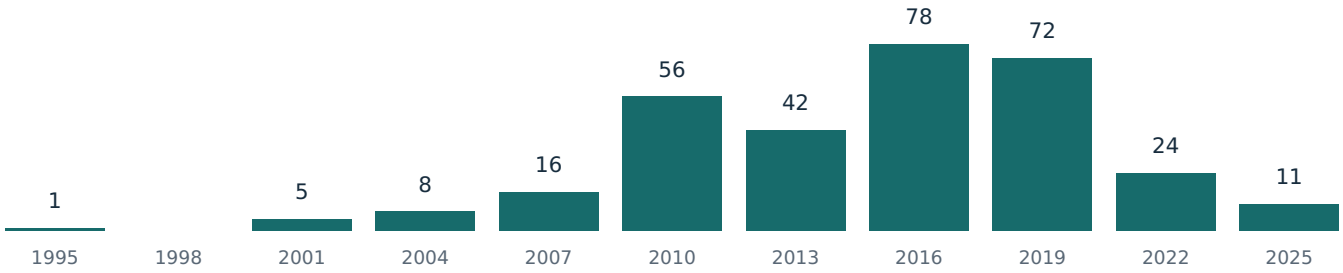
Andrea Chincarini

A publication record at a glance

315	95,429	96
ARTICLES	CITATIONS	h-INDEX

PUBLICATION ACTIVITY

Articles grouped into 3-year periods



2 articles have no publication year in the database.

MOST CITED IN THIS LIST

Observation of Gravitational Waves From a Binary Black Hole Merger — 13,393
2016 Physical Review Letters

GW170817: Observation of Gravitational Waves From a Binary Neutron Star Inspiral — 9,168
2017 Physical Review Letters

Advanced Virgo: A Second-Generation Interferometric Gravitational Wave Detector — 3,995
2015 Classical and Quantum Gravity

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2026

01 **Black Hole Spectroscopy and Tests of General Relativity With GW250114**
80 citations
Physical Review Letters · 136, 041403
https://exaly.com/article/207786005

02 **The Inflammatory Side of Iatrogenic Cerebral Amyloid Angiopathy: Rethinking Therapeutic Opportunities**
0 citations
Brain Sciences · 16, 75
https://exaly.com/article/209107477

03 **Patient-Reported Outcomes as Predictors of Disability Evolution in Multiple Sclerosis: An Interpretable Machine Learning Approach**
0 citations
Multiple Sclerosis Journal · 32, 574-584
https://exaly.com/article/209973510

2025

04 **Magnetic Noise Mitigation Strategies for the Einstein Telescope Infrastructure**
2 citations
Galaxies · 13, 9
https://exaly.com/article/197327789

05 **AI-Powered Charge Monitoring in Interferometers**
0 citations
Springer Series in Astrophysics and Cosmology
https://exaly.com/article/199983465

06 **Magnetic Noise Mitigation for Upcoming Gravitational Waves Detectors**
0 citations
Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment · 1080, 170637
https://exaly.com/article/201297264

07 **GW250114: Testing Hawking's Area Law and the Kerr Nature of Black Holes**
146 citations
Physical Review Letters · 135, 111403
https://exaly.com/article/204771052

08 **Tests of General Relativity With GWTC-3**
196 citations
Physical Review D · 112, 084080
https://exaly.com/article/206555215

09 **Miglustat in Alzheimer's Disease Associated With Heterozygous NPC1 Mutation: Exploratory Case Series and Preliminary Findings**
2 citations
European Journal of Neurology · 32, e70419
https://exaly.com/article/206941369

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2025 / continued

10 All-Sky Search for Short Gravitational-Wave Bursts in the First Part of the Fourth LIGO-Virgo-KAGRA Observing Run — 9 citations

Physical Review D · 112, 102005

https://exaly.com/article/207704863

11 Augmenting, Not Replacing: Clinicians' Perspectives on AI Adoption in Healthcare — 8 citations

Applied Sciences (Switzerland) · 15, 12405

https://exaly.com/article/207790147

2024

12 Concerns With the New Biological Research Criteria for Synucleinopathy — 1 citations

Lancet Neurology, The · 23, 662-663

https://exaly.com/article/186213657

13 Blind Source Separation in 3rd Generation Gravitational-Wave Detectors — 8 citations

New Astronomy Reviews · 99, 101707

https://exaly.com/article/186792271

14 Future Gravitational Wave Detectors: Phase Noise Investigation and Magnetic Noise Mitigation Strategies — 1 citations

Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment · 1066, 169629

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15 Charge Monitoring of Test Masses in Gravitational Waves Interferometers — 2 citations

Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment · 1069, 169833

https://exaly.com/article/188892070

2023

16 Towards an Automated Approach to the Semi-Quantification of [18F]F-DOPA PET in Pediatric-Type Diffuse Gliomas — 4 citations

Journal of Clinical Medicine · 12, 2765

https://exaly.com/article/162257440

17 Open Data From the Third Observing Run of LIGO, Virgo, KAGRA, and GEO — 327 citations

Astrophysical Journal, Supplement Series · 267, 29

https://exaly.com/article/166801389

18 Virgo Detector Characterization and Data Quality: Tools — 22 citations

Classical and Quantum Gravity · 40, 185005

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19 Virgo Detector Characterization and Data Quality: Results From the O3 Run
62 citations
Classical and Quantum Gravity · 40, 185006
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2022

20 A 3D Deep Learning Model to Predict the Diagnosis of Dementia With Lewy Bodies, Alzheimer's Disease, and Mild Cognitive Impairment Using Brain 18F-FDG PET
81 citations
European Journal of Nuclear Medicine and Molecular Imaging · 49, 563-584
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21 Added Value of Semiquantitative Analysis of Brain FDG-PET for the Differentiation Between MCI-Lewy Bodies and MCI Due to Alzheimer's Disease
19 citations
European Journal of Nuclear Medicine and Molecular Imaging · 49, 1263-1274
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22 Search for Intermediate-Mass Black Hole Binaries in the Third Observing Run of Advanced LIGO and Advanced Virgo
81 citations
Astronomy and Astrophysics · 659, A84
https://exaly.com/article/120773219

23 Search for Continuous Gravitational Waves From 20 Accreting Millisecond x-Ray Pulsars in O3 LIGO Data
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24 Calibration of Advanced Virgo and Reconstruction of the Detector Strain h(t) During the Observing Run O3
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Classical and Quantum Gravity · 39, 045006
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25 Can Electrons Neutralize the Electrostatic Charge on Test Mass Mirrors in Gravitational Wave Detectors?
3 citations
Physical Review D · 105, 042003
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26 Constraints on Dark Photon Dark Matter Using Data From LIGO's and Virgo's Third Observing Run
75 citations
Physical Review D · 105, 063030
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27 Search for Gravitational Waves Associated With Gamma-Ray Bursts Detected by Fermi and Swift During the LIGO–Virgo Run O3b
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Astrophysical Journal · 928, 186
https://exaly.com/article/136060480

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28 First Joint Observation by the Underground Gravitational-Wave Detector KAGRA With GEO 600 — 44 citations

Progress of Theoretical and Experimental Physics

https://exaly.com/article/145132402

29 Search of the Early O3 LIGO Data for Continuous Gravitational Waves From the Cassiopeia a and Vela Jr. Supernova Remnants — 41 citations

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30 Exploring the Brain Metabolic Correlates of Process-Specific CSF Biomarkers in Patients With MCI Due to Alzheimer's Disease: Preliminary Data — 10 citations

Neurobiology of Aging · 117, 212-221

https://exaly.com/article/145859680

31 A Comparison of Advanced Semi-Quantitative Amyloid PET Analysis Methods — 10 citations

European Journal of Nuclear Medicine and Molecular Imaging · 49, 4097-4108

https://exaly.com/article/146300013

32 All-Sky, All-Frequency Directional Search for Persistent Gravitational Waves From Advanced LIGO's and Advanced Virgo's First Three Observing Runs — 35 citations

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https://exaly.com/article/146306582

33 Narrowband Searches for Continuous and Long-Duration Transient Gravitational Waves From Known Pulsars in the LIGO-Virgo Third Observing Run — 73 citations

Astrophysical Journal · 932, 133

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34 Searches for Gravitational Waves From Known Pulsars at Two Harmonics in the Second and Third LIGO-Virgo Observing Runs — 76 citations

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35 Model-Based Cross-Correlation Search for Gravitational Waves From the Low-Mass X-Ray Binary Scorpius X-1 in LIGO O3 Data — 32 citations

Astrophysical Journal Letters · 941, L30

https://exaly.com/article/158819912

2021

36 Dopaminergic Imaging and Clinical Predictors for Phenoconversion of REM Sleep Behaviour Disorder — 132 citations

Brain · 144, 278-287

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2021 / continued

37 Validation of FDG-PET Datasets of Normal Controls for the Extraction of SPM-Based Brain Metabolism Maps
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European Journal of Nuclear Medicine and Molecular Imaging · 48, 2486-2499
https://exaly.com/article/78657333

38 Associations Among Education, Age, and the Dementia With Lewy Bodies (DLB) Metabolic Pattern: A European-DLB Consortium Project
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Alzheimer's and Dementia · 17, 1277-1286
https://exaly.com/article/79075403

39 A Gravitational-Wave Measurement of the Hubble Constant Following the Second Observing Run of Advanced LIGO and Virgo
268 citations
Astrophysical Journal · 909, 218
https://exaly.com/article/79454204

40 The Fate of Patients With REM Sleep Behavior Disorder and Mild Cognitive Impairment
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Sleep Medicine · 79, 205-210
https://exaly.com/article/79698257

41 All-Sky Search in Early O3 LIGO Data for Continuous Gravitational-Wave Signals From Unknown Neutron Stars in Binary Systems
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https://exaly.com/article/79703469

42 Probing the Role of a Regional Quantitative Assessment of Amyloid PET
5 citations
Journal of Alzheimer's Disease · 80, 383-396
https://exaly.com/article/79770943

43 Diving Below the Spin-Down Limit: Constraints on Gravitational Waves From the Energetic Young Pulsar PSR J0537-6910
48 citations
Astrophysical Journal Letters · 913, L27
https://exaly.com/article/80592944

44 Population Properties of Compact Objects From the Second LIGO–Virgo Gravitational-Wave Transient Catalog
829 citations
Astrophysical Journal Letters · 913, L7
https://exaly.com/article/80602176

45 Observation of Gravitational Waves From Two Neutron Star–Black Hole Coalescences
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Astrophysical Journal Letters · 915, L5
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46 **Tests of General Relativity With Binary Black Holes From the Second LIGO-Virgo Gravitational-Wave Transient Catalog**
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Physical Review D · 103, 122002
https://exaly.com/article/80921374

47 **Constraints on Cosmic Strings Using Data From the Third Advanced LIGO–Virgo Observing Run**
198 citations
Physical Review Letters · 126, 241102
https://exaly.com/article/80929850

48 **Amyloid PET in the Diagnostic Workup of Neurodegenerative Disease**
3 citations
Clinical and Translational Imaging · 9, 383-397
https://exaly.com/article/81029822

49 **GWTC-2: Compact Binary Coalescences Observed by LIGO and Virgo During the First Half of the Third Observing Run**
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Physical Review X · 11, 021053
https://exaly.com/article/81082751

50 **Upper Limits on the Isotropic Gravitational-Wave Background From Advanced LIGO and Advanced Virgo's Third Observing Run**
415 citations
Physical Review D · 104, 022004
https://exaly.com/article/81227646

51 **Search for Anisotropic Gravitational-Wave Backgrounds Using Data From Advanced LIGO and Advanced Virgo's First Three Observing Runs**
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Physical Review D · 104, 022005
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52 **Search for Gravitational Waves Associated With Gamma-Ray Bursts Detected by Fermi and Swift During the LIGO–Virgo Run O3a**
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53 **All-Sky Search for Continuous Gravitational Waves From Isolated Neutron Stars in the Early O3 LIGO Data**
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54 **Searches for Continuous Gravitational Waves From Young Supernova Remnants in the Early Third Observing Run of Advanced LIGO and Virgo**
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55 Neuroimaging Findings in Mild Cognitive Impairment
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https://exaly.com/article/121239063
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56 Constraints From LIGO O3 Data on Gravitational-Wave Emission Due to R-Modes in the Glitching Pulsar PSR J0537−6910
Astrophysical Journal · 922, 71
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57 All-Sky Search for Long-Duration Gravitational-Wave Bursts in the Third Advanced LIGO and Advanced Virgo Run
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58 All-Sky Search for Short Gravitational-Wave Bursts in the Third Advanced LIGO and Advanced Virgo Run
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59 Search for Lensing Signatures in the Gravitational-Wave Observations From the First Half of LIGO–Virgo's Third Observing Run
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60 The Advanced Virgo Longitudinal Control System for the O2 Observing Run
Astroparticle Physics · 116, 102386
https://exaly.com/article/74987986
12 citations

61 Metabolic Correlates of Dopaminergic Loss in Dementia With Lewy Bodies
Movement Disorders · 35, 595-605
https://exaly.com/article/75293289
63 citations

62 Prospects for Observing and Localizing Gravitational-Wave Transients With Advanced LIGO, Advanced Virgo and KAGRA
Living Reviews in Relativity · 23, 1-69
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63 A Joint Fermi-GBM and LIGO/Virgo Analysis of Compact Binary Mergers From the First and Second Gravitational-Wave Observing Runs
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64 GW190521: A Binary Black Hole Merger With a Total Mass of 150 M_(⊙)
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65 Quantum Backaction on Kg-Scale Mirrors: Observation of Radiation Pressure Noise in the Advanced Virgo Detector
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55 citations

66 GW190412: Observation of a Binary-Black-Hole Coalescence With Asymmetric Masses
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608 citations

67 GW190814: Gravitational Waves From the Coalescence of a 23 Solar Mass Black Hole With a 2.6 Solar Mass Compact Object
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68 GW190425: Observation of a Compact Binary Coalescence With Total Mass ∼ 3.4 M⊙
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69 Model Comparison From LIGO–Virgo Data on GW170817's Binary Components and Consequences for the Merger Remnant
Classical and Quantum Gravity · 37, 045006
https://exaly.com/article/77233050
140 citations

70 A Guide to LIGO–Virgo Detector Noise and Extraction of Transient Gravitational-Wave Signals
Classical and Quantum Gravity · 37, 055002
https://exaly.com/article/77264557
362 citations

71 Advanced Virgo Status
Journal of Physics: Conference Series · 1342, 012010
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17 citations

72 A Kinetics-Based Approach to Amyloid PET Semi-Quantification
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74 Striatal Dopamine Transporter SPECT Quantification: Head-to-Head Comparison Between Two Three-Dimensional Automatic Tools
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12 citations

75 Properties and Astrophysical Implications of the 150 M⊙ Binary Black Hole Merger GW190521
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623 citations

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78 Searches for Gravitational Waves From Known Pulsars at Two Harmonics in 2015–2017 LIGO Data
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79 All-Sky Search for Continuous Gravitational Waves From Isolated Neutron Stars Using Advanced LIGO O2 Data
Physical Review D · 100, 024004
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80 All-Sky Search for Short Gravitational-Wave Bursts in the Second Advanced LIGO and Advanced Virgo Run
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83 Search for Eccentric Binary Black Hole Mergers With Advanced LIGO and Advanced Virgo During Their First and Second Observing Runs
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84 Search for Intermediate Mass Black Hole Binaries in the First and Second Observing Runs of the Advanced LIGO and Virgo Network
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85 Search for Subsolar Mass Ultracompact Binaries in Advanced LIGO's Second Observing Run
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86 Binary Black Hole Population Properties Inferred From the First and Second Observing Runs of Advanced LIGO and Advanced Virgo
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87 Directional Limits on Persistent Gravitational Waves Using Data From Advanced LIGO's First Two Observing Runs
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88 GWTC-1: A Gravitational-Wave Transient Catalog of Compact Binary Mergers Observed by LIGO and Virgo During the First and Second Observing Runs
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Physical Review X · 9, 031040
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89 Search for the Isotropic Stochastic Background Using Data From Advanced LIGO's Second Observing Run
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90 A Standard Siren Measurement of the Hubble Constant From GW170817 Without the Electromagnetic Counterpart
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92 Semi-Quantification and Grading of Amyloid PET: A Project of the European Alzheimer's Disease Consortium (EADC) — 25 citations

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93 A Fermi Gamma-Ray Burst Monitor Search for Electromagnetic Signals Coincident With Gravitational-Wave Candidates in Advanced LIGO's First Observing Run — 35 citations

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94 Searches for Continuous Gravitational Waves From 15 Supernova Remnants and Fomalhaut b With Advanced LIGO — 72 citations

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96 Low-Latency Gravitational-Wave Alerts for Multimessenger Astronomy During the Second Advanced LIGO and Virgo Observing Run — 97 citations

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97 Search for Transient Gravitational-Wave Signals Associated With Magnetar Bursts During Advanced LIGO’s Second Observing Run — 48 citations

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98 The Role of Molecular Imaging in the Frame of the Revised Dementia With Lewy Body Criteria — 1 citations

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99 Metabolic Patterns Across Core Features in Dementia With Lewy Bodies — 61 citations

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110 **Presynaptic Dopaminergic Neuroimaging in REM Sleep Behavior Disorder: A Systematic Review and Meta-Analysis**
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113 **Metabolic Correlates of Reserve and Resilience in MCI Due to Alzheimer's Disease (AD)**
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124 **Progressive Disintegration of Brain Networking From Normal Aging to Alzheimer Disease: Analysis of Independent Components of 18F-FDG PET Data**
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126 **The Impact of Automated Hippocampal Volumetry on Diagnostic Confidence in Patients With Suspected Alzheimer's Disease: A European Alzheimer's Disease Consortium Study**
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