

論文・著書リスト

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査読付き研究論文リスト

1. Y. Matsushita, P. R. Law, *Counterexamples to Goldberg Conjecture with reversed orientation on Walker 8-manifolds of neutral signature*, in Hermitian-Grassmannian Submanifolds, IWHSS2016, Proceedings of The 20th International Workshop on Hermitian Symmetric Spaces and Submanifolds & The 12th RIRCM-OCAMI Joint Differential Geometry Workshop, Kyungpook National University, Daegu, South Korea, 26-30 July, 2016, Springer Proceedings in mathematics & Statistics, Springer 2016.
2. Y. Matsushita, P. R. Law and N. Katayama, *Neutral geometry in 4-dimension and counterexamples to Goldberg conjecture constructed on Walker 6-manifolds*, Proceedings of The 19th International Workshop on Hermitian-Grassmannian Submanifolds and Its Applications & The 10th RIRCM-OCAMI Joint Differential Geometry Workshop, Institute for Mathematical Sciences (NIMS), Daejeon, South Korea, 26-28 October, 2015, 19 (2015) 1-14.
, ed. by Young Jin Suh and Hyunjin Lee, NIMS and RIRCM.
3. P. R. Law and Y. Matsushita, *Real AlphaBeta-Geometries and Walker Geometry*, Journal of Geometry and Physics, 65 (2013), 35-44.
4. P. R. Law and Y. Matsushita, *Algebraically Special, Real Alpha-Geometries*, Journal of Geometry and Physics, 61 (2011), 2064-2080.
5. Y. Matsushita, *Geometric structures in four-dimension and almost Hermitian structures in AIP Conference Proceedings*, Volume 1340, International Workshop on Complex Structures, Integrability and Vector Fields (2011) 66-80.
6. P. R. Law and Y. Matsushita, *A Spinor Approach to Walker Geometry*, Communications in Mathematical Physics 282 (2008), 577-623.
7. J. Davidov, J.C.Díaz-Ramos, E. García-Río, Y. Matsushita, O. Muškarov and R. Vázquez-Lorenzo, *Hermitian Walker 4-manifolds*, Journal of Geometry and Physics 58 (3) (2008), 307-323.
8. *Symplectic, Hermitian, Kähler and Einstein structures on Walker 4-manifolds* (in collaboration with E. García-Río, S. Haze and N. Katayama), Journal of Geometry 90 (2008), 56-65.
9. Y. Matsushita, S. Haze and P. R. Law, *Almost Kähler-Einstein structures on 8-dimensional Walker manifolds*, Monatshefte für Mathematik 150 (2007), 41-48.

10. Y. Matsushita, *Four-dimensional geometric structures and almost complex structures*
— *Product manifolds $H^3 \times E^1$ (Riemannian Version)* — : IV-R , JP Journal of Geometry and Topology 6 (1) (2006), 35–44.
11. Y. Matsushita, *Four-dimensional geometric structures and almost complex structures*
— *solvmanifolds $Sol_{m,n}^4$ (Neutral Version)* —: III-N, JP Journal of Geometry and Topology 6 (2) (2006), 197–210.
12. Y. Matsushita, *Four-dimensional geometric structures and almost complex structures*
solvmanifolds $Sol_{m,n}^4$ — Riemannian Version —: III-R: JP Journal of Geometry and Topology 6 (1) (2006), 25–33.
13. Y. Matsushita, *Four-dimensional geometric structures and almost complex structures*
— *Nilmanifolds Nil^4 (Neutral Version)* — : II-N , JP Journal of Geometry and Topology 6 (2) (2006), 183–195.
14. Y. Matsushita, *Four-dimensional manifolds with two kinds of double almost Hermitian structures*, JP Journal of Geometry and Topology 6 (1) (2006), 1–23.
15. Y. Matsushita, *Four-dimensional geometric structures and almost complex structures*
General Procedure (Neutral Version) — : I-N , JP Journal of Geometry and Topology 5 (3) (2005), 251–274.
16. Y. Matsushita, *Four-dimensional geometric structures and almost complex structures*
— *Nilmanifolds Nil^4 (Riemannian Version)* — : II-R , JP Journal of Geometry and Topology 5 (2) (2005), 177–186.
17. Y. Matsushita, *Four-dimensional geometric structures and almost complex structures*
General Procedure (Riemannian Version) — : I-R , JP Journal of Geometry and Topology 5 (2) (2005), 155–176.
18. A. Bonome, R. Castro and L. M. Hervella and Y. Matsushita, *Flat almost Norden metrics with nonintegrable almost complex structures in dimension four*, JP Journal of Geometry and Topology 5 (2) (2005), 141–153.
19. A. Bonome, R. Castro, and L. M. Hervella and Y. Matsushita, *Construction of Norden structures on neutral 4-manifolds*, JP Journal of Geometry and Topology 5 (2) (2005), 121–140.
20. Iago García-Ramírez, Eduardo García-Río and Y. Matsushita, *Application of Bochner-Weizenböck formulas to symplectic and complex pairs to be Kähler pairs in dimension four*, Proceedings in honor of Professor K. Sekigawa’s 60th birthday, “Topics in Almost Hermitian Geometry and the Related Fields,” World Scientific July 2005.
21. Y. Matsushita, *The existence of indefinite metrics of signature $(+ + - -)$ and two kinds of almost complex structures in dimension four*, Proceedings of *The Seventh International Workshop on Complex Structures and Vector Fields*, Plovdiv, Bulgaria, August 31 - September 4, 2004. World Scientific 2005, “Contemporary Aspects of Complex Analysis, Differential Geometry and Mathematical Physics,” World Scientific July 2005.

22. Y. Matsushita, *On Euler characteristics and Hirzebruch indices of four-dimensional almost para-Hermitian manifolds*, JP Journal of Geometry and Topology, **5**, (2005) 115 - 120.
item Y. Matsushita, *Walker 4-manifolds with proper almost complex structures*, Journal of Geometry and Physics **55**, (2005) 385 - 398.
23. M. Chaichi, E. García-Río and Y. Matsushita, *Curvature properties of four-dimensional Walker metrics*, Classical and Quantum Gravity **22** (2005), 559-577.
24. Y. Matsushita, *Four-dimensional Walker metrics and symplectic structures*, Journal of Geometry and Physics **52** (2004), 89-99.
25. Y. Matsushita and P. R. Law, *Hitchin-Thorpe Type Inequalities for Pseudo-Riemannian 4-Manifolds of Metric Signature $(++--)$* , Geometriae Dedicata **87** (2001), 65-89.
26. E. García-Río, R. Vázquez-Lorenzo and Y. Matsushita, *Paraquaternionic Kähler Manifolds*, Rocky Mountain Journal of Mathematics **31** (2001), 237-260.
27. E. García-Río and Y. Matsushita, *Isotropic Kähler structures on Engel 4-manifolds*, Journal of Geometry and Physics **33** (2000), 288-294.
28. Y. Matsushita, *Pseudo-Chern classes and opposite Chern classe of indefinite almost Hermitian manifolds*, Acta Mathematica Hungaria **75** (1997), 299-316.
29. A. Bonome, R. Castro, E. García-Río, Y. Matsushita and L. M. Hervella, *Almost complex manifolds with holomorphic distributions*, Rendiconti di Matematicas (Roma) **14** (1995), 567-589.
30. A. Bonome, R. Castro, E. García-Río, Y. Matsushita and L. M. Hervella, *Kähler-Einstein metrics on a $K3$ surface cannot be almost Kähler with respect to an opposite almost complex structure*, Kodai Mathematical Journal **18** (1995), 506-514.
31. A. Bonome, R. Castro, E. García-Río, Y. Matsushita and L. M. Hervella, *Null holomorphically flat indefinite almost Hermitian manifolds*, Illinois Journal of Mathematics **39** (1995), 635-660.
32. Y. Matsushita, *Equivalence classes of fields of 2-planes and two kinds of almost complex structures on compact 4-dimensional manifolds*, manuscripta mathematica **88** (1995), 409-415.
33. Y. Matsushita, *Some remarks on fields of 2-planes on compact smooth 4-manifolds*, Advanced Studies in Pure Mathematics **22** (1993), 153-167.
34. Y. Matsushita, *Fields of 2-planes and two kinds of almost complex structures on compact 4-dimensional manifolds*, Mathematische Zeitschrift **207** (1991), 281-291.
35. Y. Matsushita, *Fields of 2-planes on compact simply connected smooth 4-manifolds*, Mathematische Annalen **208** (1988), 687-689.
36. Y. Matsushita, *Pseudo-Chern classes of an almost pseudo-Hermitian manifold*, Transactions of the American Mathematical Society **301** (1987), 665-677.
37. Y. Matsushita, *Pseudo-Pontrjagin classes*, Proceedings of the American Mathematical Society **93** (1985), 521-524.

38. N. Katayama and Y. Matsushita, *A problem on closed orbits in a cosmological model*, Tensor (N.S.) **42** (1985), 174–178.
39. Y. Matsushita, *Thorpe-Hitchin inequality for compact Einstein 4-manifolds of metric signature $(++--)$ and the generalized Hirzebruch index formula*, Journal of Mathematical Physics **24** (1983), 36–40.
40. Y. Matsushita, *Inequality for the Euler characteristic of compact Einstein 4-manifolds*, Mathematica Japonica **26** (1981), 77–79.
41. Y. Matsushita, *On Euler characteristics of compact Einstein 4-manifolds of metric signature $(++--)$* , Journal of Mathematical Physics **22** (1981), 979–82.

(査読付き講演予稿集)

42. 「宇宙航行に対する一般相対論的補正 I」第 25 回宇宙科学技術連合会講演集 2D1 1981 年 10 月
43. 「宇宙航行に対する一般相対論的補正 II」第 25 回宇宙科学技術連合会講演集 2D9 1982 年 10 月
44. 「不規則なパターンの背景を持つ実画像からの標的検出」(高橋信行, 川畠康孝との共著) 画像の認識・理解シンポジウム (MIRU2004)
<http://ieeess.iic.hokudai.ac.jp/news/040106.html>

著 書

1. (一般向け)
 松下泰雄著、「曲線の秘密」(ブルーバックス) 講談社 2016 年 3 月
2. 松下泰雄著、「拡張ミンコフスキー空間での時間」、月刊 数理科学、2015 年 1 月号、pp.44-47 .
3. 松下泰雄・鎌田博行・中田文憲共著、「4 次元微分幾何学への招待」、臨時別冊・数理科学 SGC ライブラリ 113、サイエンス社、2014
4. (大学教科書)
 松下泰雄著「フーリエ解析=基礎と応用」培風館 (ISBN 4-563-01109-6) (2001) (2016 年 10 月 第 17 刷)
5. (一般向け)
 佐藤文隆・松下泰雄共著 「波のしくみ」(ブルーバックス) 講談社 2007 年 11 月
6. (解説)
 松下泰雄著 「ミンコフスキー空間」
 国連世界物理年記念号『別冊・数理科学「相対論の歩み」』 2005 年 4 月』(pp.108-115) に掲載