

投稿中の論文：

- K. Saji, M. Umehara and K. Yamada, *Deformations of swallowtails in a 3-dimensional space form*, preprint.
- *Convexity of space-like projections of submanifolds with co-dimension 2 in Lorentz-Minkowski space*, preprint. (arXiv:2406.05971).
- T. Fukui, R. Kinoshita, D. Pei, M. Umehara and H. Yu, *Cuspidal edges and generalized cuspidal edges in the Lorentz-Minkowski 3-space*, Preprint (arXiv:2409.01603).

掲載論文および掲載予定論文:

- (1) S. Akamine, A. Honda, M. Umehara and K. Yamada, *Null hypersurfaces as wave fronts in Lorentz-Minkowski space*, to appear in J. Math. Soc. Japan (arXiv:2203.02864)
- (2) N. Ando and M. Umehara, *Umbilics of surfaces in the Lorentz-Minkowski 3-space*, Results Math. (2023) 78:241.
- (3) K. Saji, M. Umehara and K. Yamada, *Deformations of cuspidal edges in a 3-dimensional space form*, Kodai Math. J. **44** (2024), 69–76
- (4) S. Fujimori, Y. Kawakami, M. Kokubu, W. Rossman, M. Umehara, K. Yamada, S.-D. Yang *Analytic extensions of constant mean curvature one geometric catenoids in de Sitter 3-space*, Differential Geometry and its Applications **84**, October 2022, 101924, <https://doi.org/10.1016/j.difgeo.2022.101924>
- (5) A. Honda, K. Naokawa, K. Saji, M. Umehara and K. Yamada, *A generalization of zakalyukin's lemma, and symmetries of surface singularities*, Journal of Singularities **25** (2022), 299–324 Proc. of 16th International Workshop on Singularities, Sao Carlos, 2020 DOI:10.5427/jsing.2022.25m
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- (8) M. Umehara and K. Yamada, *Hypersurfaces with light-like points in a Lorentzian manifold II*, Kodai Math. J. **44** (March) (2021), 69-76
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- (10) A. Honda, K. Naokawa, K. Saji, M. Umehara, and K. Yamada, *Cuspidal edges with the same first fundamental forms along a knot*, J. Knot Theory Ramifications **29** (2020), <https://doi.org/10.1142/S0218216520500479>.
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- (12) S. Akamine, A. Honda, M. Umehara and K. Yamada, *Null hypersurfaces in Lorentzian manifolds with the null energy condition*, J. Geom. Phys. **155** (2020), <https://doi.org/10.1016/j.geomphys.2020.103751>.
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著書および雑誌等への論説等

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