

## List of publications of Yozô Matsushima

### Monographs

- a. リー環論, 共立出版 1956.
- b. 多様体入門, 裳華房 1965.
- c. Holomorphic vector fields on compact Kähler manifolds. Conference Board of the Mathematical Sciences, Regional Conference Series in Math., No. 7, Amer. Math. Soc., Providence, R.I., 1971, vi+38pp. MR 54#608.
- d. Differentiable manifolds, Marcel Dekker Inc., New York, 1972. vii+303pp. MR 49#11553.

### Papers

1. Bemerkungen über die Liesche Ringe mit Primzahl-charakteristik, Proc. Imp. Acad. Tokyo, **19** (1943), 275–277, MR 7, 237.
2. Über die multiplikative Gruppen einer p-adischen Divisionsalgebra, Proc. Imp. Acad. Tokyo, **19** (1943), 622–628, (mit Tadasi Nakayama), MR 7, 238.
3. Note on the replicas of matrices, Proc. Japan Acad. **23** (1947), 42–49, MR 12, 799.
4. On the Cartan decompositions of a Lie algebra, Proc. Japan Acad. **23** (1947), 50–52, MR 12, 799.
5. On algebraic Lie groups and algebras, J. Math. Soc. Japan **1** (1948), 46–57, MR 10, 426.
6. On the faithful representations of Lie groups, J. Math. Soc. Japan **1** (1949), 254–261, MR 11, 492.
7. On the decomposition of an (L)-group, J. Math. Soc. Japan **1** (1950), 264–274, MR 12, 589.
8. On a type of subgroups of a compact Lie group, Nagoya Math. J. **2** (1951), 1–15, MR 12, 673.
9. On the discrete subgroups and homogeneous spaces of nilpotent Lie groups, Nagoya Math. J. **2** (1951), 95–110, MR 12, 802.
10. Some remarks on the exceptional simple Lie group  $\mathfrak{F}_4$ , Nagoya Math. J. **4** (1952), 83–88, MR 14, 533, 1278.
11. On a theorem concerning the prolongation of a differential system, Nagoya Math. J. **6** (1953), 1–16, MR 15, 428.
12. Sur le prolongement d'un pseudogroupe d'isomorphismes locaux d'une variété différentiable, Nagoya Math. J. **7** (1954), 103–110, MR 16, 334.
13. Sur les algèbres de Lie linéaire semi-involutives, Colloque de Topologie de Strasbourg, 1954–1955, Institut de Mathématiques, Université de Strasbourg, 17pp, MR 19, 431.
14. Pseudo-groupes de Lie transitifs, Séminaire Bourbaki, 7ième année; 1954/55, exposés 118, Mai (1955), 14pp.
15. Un théorème sur les espaces homogènes complexes, C.R. Paris **241** (1955), 785–787, MR 17, 410.

16. Sur les espaces homogènes kählériens d'un groupe de Lie réductif, Nagoya Math. J. **11** (1957), 53–60, MR **19**, 315.
17. Some studies on Kaehlerian homogeneous spaces, Nagoya Math. J. **11** (1957), 77–92, (with Jun-ichi Hano), MR **18**, 934.
18. Sur la structure du groupe d'homéomorphismes analytiques d'une certaine variété kaehlérienne, Nagoya Math. J. **11** (1957), 145–150, MR **20**, 995.
19. Fibrés holomorphes sur un tore complexe, Nagoya Math. J. **14** (1959), 1–24, MR **21** #1403.
20. Sur certains espaces fibrés holomorphes sur une variété de Stein, Bull. Soc. Math. France **88** (1960), 137–155, (avec Akihiko Morimoto), MR **23** #A1061.
21. Espaces homogènes de Stein des groupes de Lie complexes, Nagoya Math. J. **16** (1960), 205–218, MR **22** #739.
22. Sur certaines variétés homogènes complexes, Nagoya Math. J. **18** (1961), 1–12, MR **25** #2147.
23. Espaces homogènes de Stein des groupes de Lie complexes, II, Nagoya Math. J. **18** (1961), 153–164, MR **23** #A244.
24. On the first Betti number of compact quotient spaces of higher-dimensional symmetric spaces, Ann. of Math. **75** (1962), 312–330, MR **28** #1629.
25. On Betti numbers of compact, locally symmetric Riemannian manifolds, Osaka Math. J. **14** (1962), 1–20, MR **25** #4549.
26. On vector bundle valued harmonic forms and automorphic forms on symmetric riemannian manifolds, Ann. of Math. **78** (1963), 365–416, (with Shingo Murakami), MR **27** #2997.
27. On the cohomology groups attached to certain vector valued differential forms on the product of the upper half planes, Ann. of Math. **78** (1963), 417–449, (with Goro Shimura), MR **27** #5274.
28. On the cohomology groups of locally symmetric, compact Riemannian manifolds, Differential Analysis, Bombay Colloq., 1964, 237–242, Oxford Univ. Press, London, 1964, MR **32** #4706.
29. On certain cohomology groups attached to hermitian symmetric spaces, Osaka J. Math. **2** (1965), 1–35, (with Shingo Murakami), MR **32** #1728.
30. On certain cohomology groups attached to Hermitian symmetric spaces, Proc. U. S.—Japan Seminar in Differential Geometry (Kyoto, 1965), 82–94, Nippon Hyoronsha, Tokyo, 1966, (with Shingo Murakami), MR **35** #4951.
31. A formula for the Betti numbers of compact locally symmetric Riemannian manifolds, J. Differential Geometry **1** (1967), 99–109, MR **36** #5958.
32. Affine structures on complex manifolds, Osaka J. Math. **5** (1968), 215–222, MR **39** #2086.
33. On certain cohomology groups attached to hermitian symmetric spaces (II), Osaka J. Math. **5** (1968), 223–241, (with Shingo Murakami), MR **42** #1145.
34. Holomorphic vector fields and the first Chern class of a Hodge manifold, J. Differential Geometry **3** (1969), 477–480, MR **42** #8431.
35. On the automorphisms and equivalences of generalized Siegel domains, Amer. J. Math. **92** (1970), 475–498, (with Wilhelm Kaup and Takushiro Ochiai), MR **42** #2029.
36. On automorphisms and equivalences of Siegel domains, Several Complex Variables, I, (Proc. Conf., Univ. of Maryland, College Park, Md., 1970), 132–140,

- Springer, Berlin, 1970, MR **44**#1839.
37. Vector bundle valued harmonic forms and immersions of Riemannian manifolds, *Osaka J. Math.* **8** (1971), 1–13, MR **45**#5917.
  38. On Hodge manifolds with zero first Chern class, *Differentialgeometrie im Grossen* (Ber. Tagung, Math. Forschungsinst., Oberwolfach, 1969), pp. 251–257, Ber. Math. Forschungsinst. Oberwolfach, Heft 4, Bibliographisches Inst., Mannheim, 1971, MR **51**#942.
  39. On tube domains, Symmetric spaces (Short Courses, Washington Univ., St. Louis, Mo., 1969–1970), pp. 255–270, *Pure and Appl. Math. Vol. 8*, Dekker, New York, 1972, MR **53**#5956.
  40. Remarks on Kähler-Einstein manifolds, *Nagoya Math. J.* **46** (1972), 161–173, MR **46**#2615.
  41. Ample vector bundles on compact complex spaces, *Complex analysis*, 1972, Vol. II: Analysis on singularities, (Proc. Conf., Rice Univ., Houston, Tex., 1972), *Rice Univ. Studies* **59** (1973), No. 2, 71–107, (with Wilhelm Stoll), MR **50**#13618.
  42. Holomorphic immersions of a compact Kähler manifold into complex tori, *J. Differential Geometry* **9** (1974), 309–328, MR **50**#2550.
  43. Weakly ample vector bundles and submanifolds of complex tori, *Rencontre sur l'analyse complexe à plusieurs variables et les systèmes surdéterminés* (Texts Conf., Univ. Montréal, Montreal Que., 1974), pp. 65–104, Presses Univ. Montréal, Montreal, Que., 1975, (with Alan Howard), MR **56**#12336.
  44. On a problem of Stoll concerning a cohomology map from a flag manifold into a Grassmann manifold, *Osaka J. Math.* **13** (1976), 231–269, MR **54**#6176.
  45. Heisenberg groups and holomorphic vector bundles over a complex torus, *Nagoya Math. J.* **61** (1976), 161–195, MR **54**#7871.
  46. On the intermediate cohomology group of a holomorphic line bundle over a complex torus, *Osaka J. Math.* **16** (1979), 617–631, MR **80j**: 32046.