

1134-32-365

Masanori Adachi* (`adachi.masanori@shizuoka.ac.jp`), Department of Mathematics, Faculty of Science, Shizuoka University, 836 Ohya Suruga-ku, Shizuoka, 422-8529, Japan. *Weighted Bergman spaces of domains with Levi-flat boundary: two case studies.*

In contrast to bounded domains in Stein manifolds, it is not clear to what extent domains with Levi-flat boundary are capable of holomorphic function with slow growth. We shall answer this question in two cases, the space of geodesic segments and the maximal Grauert tube of a compact Riemann surface, which are realized as 1-convex domains with Levi-flat boundary. We describe the weighted Bergman spaces of these domains explicitly. (Received September 11, 2017)