

# Schwarz lemma, the Carathéodory and Kobayashi metrics and applications in complex analysis

Miodrag Mateljević

*University of Belgrade, Faculty of Mathematics, Belgrade, SERBIA*  
[miodrag@matf.bg.ac.rs]

We study Schwarz lemma at the boundary of strongly pseudoconvex domains, and versions of now called the Caratheodory-Cartan-Kaup-Wu theorem, which generalizes the classical Schwarz lemma for holomorphic functions to higher dimensions, and iterations and fixed points of holomorphic mappings.

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