



## ON THE UNIQUENESS OF MEROMORPHIC FUNCTIONS AND THEIR DERIVATIVES UNDER SET SHARING

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**Abstract.** The primary objective of this paper is to investigate whether the presence of shared sets  $S$ , encompassing both meromorphic functions and their higher-order derivatives, along with powers of meromorphic functions and their differential monomials, could lead to uniqueness. The main focus is on determining the precise solutions to various differential equations. This problem is now being studied more broadly, specifically in set sharing.

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Communicated by Editors; Received December 6, 2024

AMS Subject Classification: 30D35.

Keywords: Differential polynomial, uniqueness, meromorphic function, weighted sharing sets.