Abstract
In this paper, we introduce the definition of weakly weighted-sharing which is between "CM" and "IM". Using the notion of weakly weighted-sharing, we investigate problems of meromorphic functions that share a small function with its differential polynomial, and give some results and also answer some questions of Kit-Wing Yu, which were also studied by L.P.Liu and Y.X. Gu. L.P. Liu and Y.X. Gu, Uniqueness of meromorphic functions that share one small function with their derivatives, Kodai. Math. J. 27 (2004), 272-279]., S.H. Lin and W.C. Lin, S.H. Lin and W.C. Lin, Uniqueness of meromorphic functions concerning weakly weighted-sharing, Kodai. Math. J., 29 (2006), 269-280.]

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