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A Modification of the Nevanlinna Theory

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Abstract. We present a modification of the Nevanlinna theory which is inspired by previous work of H. Cartan and D. Drasin and which makes full use of Poisson-Jensen-Nevanlinna's Formula. We show that the results from the “classical” Nevanlinna theory remain valid for this modification. Furthermore, we give an estimate for the modified proximity function of the logarithmic derivatives of functions in a non-normal family which extends previous results by Drasin and W. Schwick.

Keywords. Nevanlinna theory, Cartan's characteristic, Theorem on the Logarithmic Derivative.

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