27. Nov. 1951. Entire les

Dear Professor Sunyer!

Many thanks for your kind letter of 15.Nov. and for your very interesting reprints I received today.Unfortunately I don't speak your fine and musical language, nevertheless the lecture of your papers caused me not the slightest difficulty. The result I hinted in my letter to dr. Augé is contained in your paper "Propriedades de las funciones enteras representadas por series de Taylor laming gunares as Lema 1.3.As to this I showed in my forthcoming book entitled "Über eine neue Methode der Analysis mit Anwendungen" the following. Let

 $f(z) = \sum_{k=1}^{\infty} a_k z^{-k}$

the numbers l_k being integers with the Fabry-condition $\lim_{k\to\infty} \frac{1}{k} l_k = +\infty$.

We denote as usual

max |f(x)|=M(+), max |f(x)|=M(+, x,β).

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α ≤ β+c × ≤ β

Then for arbitrary $0 < \epsilon < \frac{1}{2}$ for $t > t_0(f, \epsilon, \alpha, \beta)$ the inequality

M(+) 1+ = 48 M(2+) [M(+, x, B)

holds. In the case of an integral function of fifite order this gives not only that f(z) grows "equally fast" in every angle, but that f(z) has also the same order and type with respect to any domain of the form

12-20/5 1 M(4) E



where $z = +e^{it}$ and t denotes an arbitrary but fixed real number/than with respect to the whole plane. An inequality near akin to yours is proved in Laurent Schwarz's paper "Approximation d'une fonction quelchque... in Ann. de la Fac. des Sc. de l'Univ. Toulouse. 1943. pll1-174.

Within short time I shall gladly send to you some of my reprints.

With heartiest greetings to you and also to Dr. Augé

yours very sincerely

gaul Turán

Us salusta aperturo cument.

J. Milast.