

§ 34

$$\exists 0 \leq A_n < \infty \text{ a. t.}$$

$A_n \rightarrow A_\infty$. Moreover,

$$(*) \quad A_{2n} \leq A_\infty \leq A_{2n-1}$$

since $A_1 \geq A_3 \geq \dots$

Consequently

$$|A_\infty - A_n| \leq b_{n+1}.$$