

$$\sum_{n=1}^{\infty} \frac{2^n}{n!}$$

$a_n \neq 0$

$$\lim_{n \rightarrow \infty} \frac{a_{n+1}}{a_n} = \lim_{n \rightarrow \infty} \frac{\frac{2^{n+1}}{(n+1)!}}{\frac{2^n}{n!}} =$$

$$\lim_{n \rightarrow \infty} \frac{n!}{(n+1)!} \cdot \frac{2^{n+1}}{2^n} = \lim_{n \rightarrow \infty} \frac{2}{n+1} = \underline{0 < 1}$$

zatem z d'Al'Pavel. kritt.

$\sum a_n$ k

$$\sum_{n=1}^{\infty} \frac{2^n}{n!}$$

$a_n \geq 0$

Cauchy's ϵ crit.

$$\lim_{n \rightarrow \infty} \sqrt[n]{a_n} = \lim_{n \rightarrow \infty} \sqrt[n]{\frac{2^n}{n!}} = \lim_{n \rightarrow \infty} \frac{2}{\sqrt[n]{n!}}$$

$$= \underline{0 < 1}$$

zweiter: $\sum_{n=1}^{\infty} \frac{2^n}{n!} < \infty$

$$\sum_{n=1}^{\infty} \frac{1}{n^2}$$