Beiy. Most. Cemurop

$$|J-S| = |\sum_{i=0}^{n-1} (J_i - S_i)| \le \sum_{i=0}^{n-1} |J_i - S_i|$$

$$\int_{i=0}^{n} |J_i| \le \int_{i=0}^{n-1} |J_i - S_i|$$

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< \\\ \[\le \] € \(\frac{1}{2} | f'(\xi)\frac{h^2}{2} | \frac{\xi'}{2} | \frac{\xi'}{2} | \(\xi')\frac{\xi'}{2} | \frac{\xi'}{2} | \(\xi')\frac{\xi'}{2} \\ \xi''\) \(\xi'')\frac{\xi'}{2} \\ \xi'''\)

> * Новосибирский государственный университет *НАСТОЯЩАЯ НАУКА

Q-no sporregue $S = \sum_{i=1}^{n-1} f(x_i) + f(x_{i+1}) h$ f(x0) + f(x1) h + f(x2) h + - f(Xn.z) + f(Xn) h $S:=\frac{f(-\frac{h}{2})+f(\frac{h}{2})}{h}+\frac{f''(0)\frac{h}{4}}{2}$ $J_i = \int_{-\frac{h}{2}}^{2} f(x) dx$ $|\mathcal{I} - S| \leq \sum_{i=0}^{n-1} |\mathcal{I}_i - S_{i}| = \sum_{i=0}^{n-1} |f(o)h + \frac{f(o)(h^3)}{24} + O(h^5) - \frac{1}{2}$ f(x) - l pag resnopa: = 5/f(0)h - f(0)h3/ $f(x)' = f(0) + \frac{f'(0) \times f'(0) \times f''(0) \times f''($ Stex) dx = f(o)h+ f(o)h) + O(hs) $f(\pm \frac{h}{2}) = f(0) \pm f'(0) \frac{h^2}{2!} + f''(0) \frac{h^2}{4!} + f''(0) \frac{h^2}{8!} + f''$ Ap) 6 renegoone + s'isin xdx Rocunsors (