$$f(x) \cdot g(x) = \int_{-\infty}^{\infty} f(x) \cdot g(x-x) dx$$

$$\int_{-\infty}^{\infty} f(\tau) \cdot \int_{iz-\tau} d\tau = \frac{n-1}{2} \int_{x_i}^{x_{i+1}} f(\tau) \cdot \int_{iz-\tau} d\tau.$$

in [zi, ziti] fix) can be approximated by a polynominal

$$\begin{cases}
f(\tau) = a_0 + a_1 x + \cdots \\
9(x-\tau) = b_0 + b_1 x + \cdots \\
1 & x = x - x_i
\end{cases}$$

0 if f, 9 is linear ... xi+1-7;

$$\int_{a_{i}}^{x_{i+1}} f(\tau) \int_{a_{i}}^{x_{i+1}-x_{i}} \int_{a_{i}}^{x_{i+1}-x_{i}} f(\tau) \int_{a_{i}}^{x_{i+1}-x_{i}} \int_{a_{i}}^{x_{i+1}-x_{i}} f(\tau) \int_{a_{i}}^{x_{i+1}-x_{i}} f(\tau) \int_{a_{i}}^{x_{i+1}-x_{i}} \int_{a_{i}}^{x_{i+1}-x_{i}} f(\tau) \int_{a_{i}}^{x_{i}} f(\tau) \int_{a_$$

a if f,g is cubic spline.

$$\int_{x_{i}}^{x_{i+1}} f(\tau) g(x_{i} - \tau) d\tau = \frac{1}{1!} a_{0} b_{0} a_{i} + \frac{1}{2!} \sum_{i} a_{i} b_{i} a_{i}^{2} + \frac{1}{3!} \sum_{i} a_{i} b_{2-i} a_{i}^{3}$$