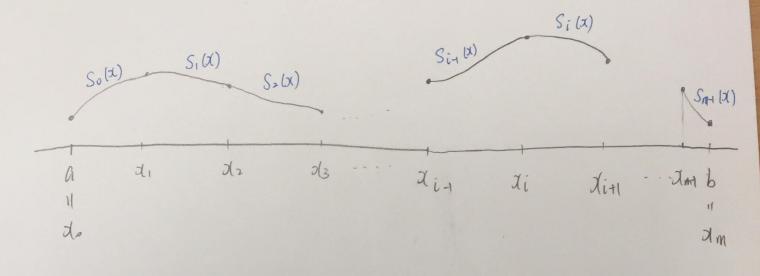
## Spline (核條)



$$S(x) = \begin{cases} S_0(x), & \text{if } d_0 \leq x \leq d_1 \\ S_1(x), & \text{if } d_1 \leq x \leq d_2 \end{cases}, \quad S \in C^{n-1}(a,b)$$

$$\vdots$$

$$S_{m+1}(x), & \text{if } d_{m+1} \leq x \leq d_m$$

$$S_i \in \Pi_n$$
,  $\Pi_n = \{p(n) : polynomial of degree at most  $n$ .  $\}$ .$ 

For 
$$i = 0, 1, 2, ..., M-2$$

$$S_{i}(J_{i+1}) = S_{i+1}(J_{i+1}) = f(J_{i+1})$$
 $S_{i}(J_{i+1}) = S_{i+1}(J_{i+1})$ 
 $S_{i}(J_{i+1}) = S_{i+1}(J_{i+1})$ 
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Cubic Spline 
$$= 2\pi \times 4\pi \times 14\pi \times 14\pi$$