## 混合重要抽样的密度推导

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11:39 AM

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$$P_{f} = \int_{R} I_{f}(x) \frac{f_{x}(x)}{h_{x}(x)} - h_{x}(x) dx$$

型する介は  $P_{f} = \sum_{R=1}^{n} Q_{R} h_{x}^{(R)}(x)$ 

$$Q_{f}(x) = \sum_{R=1}^{n} Q_{R} h_{x}^{(R)}(x)$$

$$Q_{f}(x) = \sum_{R=1}^{n} P_{R} I_{f}(x) \frac{f_{x}(x)}{h_{x}(x)} dx$$

$$= \sum_{R=1}^{n} E \left(I_{f}(x) \frac{f_{x}(x)}{h_{x}(x)} dx\right)$$

$$\Rightarrow \sum_{R=1}^{n} \frac{f_{x}(x)}{h_{x}(x)} \frac{f_{x}(x)}{h_{x}(x)} dx$$

$$\Rightarrow \int_{R=1}^{n} \frac{f_{x}(x)}$$