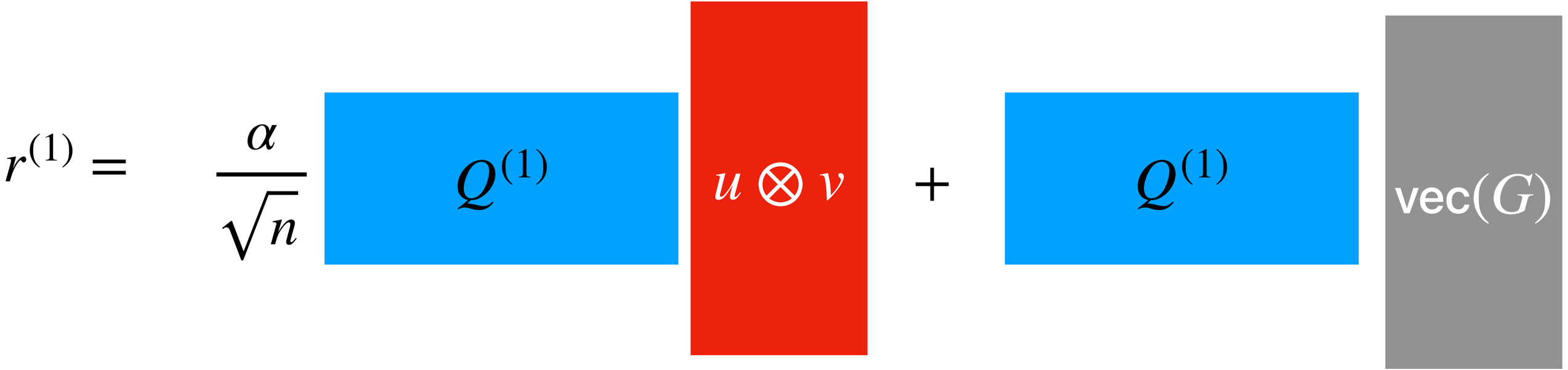
Deterministic Algorithm

- Stack vec($S_1^{(1)}$), …, vec($S_t^{(1)}$) to get a matrix $Q^{(1)}$


$r^{(1)} =$
$\frac{\alpha}{\sqrt{n}}$
$Q^{(1)}$
$u \otimes v$
+
$Q^{(1)}$
vec(G)

- Based on $r^{(1)}$ pick $Q^{(2)}[r^{(1)}]$

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Deterministic Algorithm

- Stack $\text{vec}(S_1^{(1)}), \ldots, \text{vec}(S_t^{(1)})$ to get a matrix $Q^{(1)}$

$$r^{(1)} = \frac{\alpha}{\sqrt{n}} Q^{(1)} (u \otimes v) + Q^{(1)} \text{vec}(G)$$

- Based on $r^{(1)}$ pick $Q^{(2)}[r^{(1)}]$

Bayes Risk Lower Bounds