How to recover μ **exactly**?

Option 1: $\mu = \mathbb{E}(\varphi_{\mathbf{s}}(\mathbf{c}))$

(in the relevant proba. space)

The Ω-space logic

Option 2: $\mu = \text{round}(\varphi_{\mathbf{s}}(\mathbf{c}))$

On a given finite message space $\mathcal{M}$

The logic of the decryption algorithm