

Öffentliche Parameter:  $(p, g)$

$A$

$DB$

$B$

$$b \xleftarrow{\$} \mathbb{Z}_q$$
$$\beta \leftarrow g^b$$

$\xleftarrow{\text{store}(B, \beta)}$

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$\xrightarrow{\text{retrievePK}(B)}$

$(B, \beta)$

$\xleftarrow{\hspace{1.5cm}}$

$$x \xleftarrow{\$} \mathbb{Z}_q$$
$$X \leftarrow g^x$$
$$k \leftarrow \beta^x$$
$$c \leftarrow \text{Enc}_k(m)$$

$(X, c)$

$\xrightarrow{\hspace{1.5cm}}$

$$k \leftarrow X^b$$
$$m \leftarrow \text{Dec}_k(c)$$