

## 1 無限次元ガウスの消去法

(とりあえず)

$$A \simeq DF^{-1} \rightarrow A = DF^{-1}$$

$$\phi = DF^{-1}F(\tilde{x})$$

$$DF\phi = F(\tilde{x})$$

$$\begin{cases} \Pi_N DF(\Pi_N \phi + (I - \Pi_N)\phi) = \Pi_N F(\tilde{x}) \\ (I - \Pi_N)DF(\Pi_N DF(\Pi_N + (I - \Pi_N)\phi)) = (I - \Pi_N)F(\tilde{x}) \end{cases}$$

$$\|DF^{-1}(x)F(\tilde{x})\|_X \leq Y_0$$

$$DF\phi = F(\tilde{x})$$