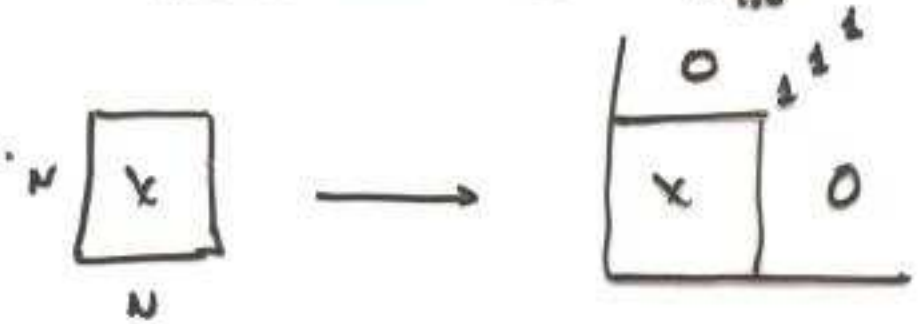
5. $Id \notin \Psi^{-\infty}_{iso}(n)$.

Append it; $Id + \Psi^{-\infty}_{iso}(n)$ is a ring of operators on $\mathcal{S}(\mathbb{R}^n)$.

$M(N) \hookrightarrow Id + \Psi^{-\infty}_{iso}(1)$ by



The determinant extends continuously

Fredholm

$\det : Id + \Psi^{-\infty}_{iso}(n) \longrightarrow \mathbb{C}$ entire analytic

$\det(AB) = \det A \cdot \det B$

$\det Id = 1$

(Used $\det$ on $M(N)$)