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Introduction

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Theorem 1.1 (von Neumann)

Let A be a self-adjoint operator acting on the Hilbert space $\mathcal{H}$. Then there exists a unique projection valued measure (POVM) $\mu : \mathcal{B}_{\mathbb{R}} \to \mathcal{B}(\mathcal{H})$ such that

$$A = \int_{\mathbb{R}} \lambda \, \mathrm{d}\mu(\lambda)$$

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Example 1.2

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Remark 1.3

If A is bounded self-adjoint operator on $\mathcal{H}$ and $\psi \in \mathcal{H}$ be a unit vector then there exist a unique probability measure μ on $\mathbb{R}$ such that for all m

$$\langle A^m \psi, \psi \rangle = \int_{\mathbb{R}} \lambda^m \, \mathrm{d}\mu(\lambda)$$

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