

Exercises 1 and 2: Basic Facts **Basic Facts 1 and 2**

Exercise 1. Let $\mathcal{H}$ be a Hilbert space and $\mathcal{H}^*$ its dual space. Prove the following:

1. Establish the basic isomorphisms (the following isomorphisms are standard isomorphisms of normed spaces) for $\mathcal{H}$ and $\mathcal{H}^*$:

- a. $\mathcal{H} \cong \mathcal{H}^{**} \cong \mathcal{H}^*$
 Here $\mathcal{H} \cong \mathcal{H}^{**}$ is the canonical isomorphism (isometry).
 Here $\mathcal{H} \cong \mathcal{H}^*$ is the canonical isomorphism (isometry) if $\mathcal{H}$ is reflexive. (Define the canonical isomorphism $\mathcal{H} \rightarrow \mathcal{H}^*$.)
- b. $\mathcal{H} \oplus \mathcal{H}^* \cong \mathcal{H}^* \oplus \mathcal{H} \cong \mathcal{H} \oplus \mathcal{H}$
 (The canonical isomorphism $\mathcal{H} \oplus \mathcal{H}^* \rightarrow \mathcal{H}^* \oplus \mathcal{H}$ is the identity.)
 (The canonical isomorphism $\mathcal{H} \oplus \mathcal{H}^* \rightarrow \mathcal{H} \oplus \mathcal{H}$ is the identity.)
 (The canonical isomorphism $\mathcal{H}^* \oplus \mathcal{H} \rightarrow \mathcal{H} \oplus \mathcal{H}$ is the identity.)
 (The canonical isomorphism $\mathcal{H} \oplus \mathcal{H}^* \rightarrow \mathcal{H} \oplus \mathcal{H}$ is the identity.)

2. Show the standard isomorphisms of normed spaces, namely $\mathcal{H} \cong \mathcal{H}^*$ and $\mathcal{H} \cong \mathcal{H}^{**}$.

$$\mathcal{H} \cong \mathcal{H}^* \cong \mathcal{H}^{**} \cong \mathcal{H}$$

Let $\mathcal{H} \cong \mathcal{H}^* \cong \mathcal{H}^{**} \cong \mathcal{H}$.

Let $\mathcal{H} \cong \mathcal{H}^* \cong \mathcal{H}^{**} \cong \mathcal{H}$.
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Let $\mathcal{H} \cong \mathcal{H}^* \cong \mathcal{H}^{**} \cong \mathcal{H}$. Let $\mathcal{H} \cong \mathcal{H}^* \cong \mathcal{H}^{**} \cong \mathcal{H}$.

3. Establish the isomorphism of normed spaces $\mathcal{H} \cong \mathcal{H}^*$ and $\mathcal{H} \cong \mathcal{H}^{**}$ and prove the following:

$$\mathcal{H} \cong \mathcal{H}^* \cong \mathcal{H}^{**} \cong \mathcal{H} \cong \mathcal{H}^* \cong \mathcal{H}^{**} \cong \mathcal{H}$$

Prove that the canonical isomorphism $\mathcal{H} \rightarrow \mathcal{H}^*$ is an isomorphism of normed spaces.

Let $\mathcal{H} \cong \mathcal{H}^* \cong \mathcal{H}^{**} \cong \mathcal{H}$.
 Let $\mathcal{H} \cong \mathcal{H}^* \cong \mathcal{H}^{**} \cong \mathcal{H}$.

Hess Law Post Lab Questions

Chao Zhang

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