GRAM MATRICES OF REPRODUCING KERNAL HILBERT SPACES OVER GRAPHS III

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Abstract. We study reproducing kernel Hilbert spaces induced by inclusion $G_1 \subset G_2$ of two connected graphs having a common vertex set. Under a certain finiteness condition, it is shown that the dimensions of de Branges-Rovnyak complements associated with inclusion $G_1 \subset G_2$ are described by the language of graph theory.

Keywords and phrases: Reproducing kernel Hilbert space, graph, de Branges-Rovnyak space.

REFERENCES