

ABSOLUTE MATRIX ORDER IDEALS IN ABSOLUTE MATRIX ORDER UNIT SPACES

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Abstract. In this paper, we define and study absolute matrix order ideals in absolute matrix order unit spaces. We also characterize all the absolute matrix order unit ideals in an absolute matrix order unit space. As an application of absolute matrix order unit property, we construct some kinds of absolute matrix order ideals in absolute matrix order unit spaces. Later, we show that the Grothendieck group of a such kind of absolute matrix order unit ideal for order projections is a subgroup of Grothendieck group of corresponding absolute matrix order unit space for order projections.

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