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Holomorphic Almost Periodic Functions in Tube Domains and Their Amoebas

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Abstract. We extend the notion of amoeba to holomorphic almost periodic functions in tube domains. In this setting, the order of a function in a connected component of the complement of its amoeba is just the mean motion of this function. We also find a correlation between the orders in different components.

Keywords. Almost periodic function, amoeba, zero set, mean motion, exponential sum.

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