

NEW SPECTRAL MAPPING THEOREM OF THE TAYLOR SPECTRUM

MUNEO CHŌ AND KÔTARÔ TANAHASHI

Received July 14,2020 ; revised October 4,2020

ABSTRACT. We show new spectral mapping theorem of the Taylor spectrum for doubly commuting pairs of p -hyponormal operators and log-hyponormal operators. And we give Putnam inequality for log-hyponormal tuples.

2010 *Mathematics Subject Classification.* Primary 47B20, Secondary 47A10.

Key words and phrases. Taylor spectrum, Xia spectrum, spectral mapping theorem, p -hyponormal, log-hyponormal.