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generalization of class a the famous fuglede putnam s theorem is as follows the operator equation ax xb a x x b implies a x xb a x x b when a a and b b are normal operators in this paper the fuglede putnam theorem and normal products of matrices dedicated to o todd mathematics 2001 the rectangular matrix version of the fuglede putnam theorem is used to prove that for rectangular complex matrices a and b both ab and ba are normal if and only if a ab baa and b ba abb we the famous fuglede putnam s theorem is as follows the operator equation ax xb implies a x xb when a and b are normal operators in this paper rstly we show that if x is a hilbert schmidt operator a is a quasi class a k operator and b is an invertible class a operator such that ax xb then a x xb since for a p w hyponormal operator this is not always true p w hyponormal operator do not fuglede putnam s theorem for example if p is the orthogonal projection onto with t is p w hyponormal then but the following result corollary 4 6 prove that if s are p w hyponormal operators such that reduces and reduces s then the pair fuglede putnam theorem for p hyponormal or class y operators we say operators a b on hilbert space satisfy fuglede putnam theorem if ax x b for some x implies we show that if either 1 a is p hyponormal and is a class y operator or 2 a is a class y a note on the fuglede putnam theorem 255 theorem 4 fuglede putnam let m n op h be normal and t b h if tn mt then t n m t proof let fn and gm be bounding sequences for n and m respectively since tn mt it follows that tnfn mtfn since tnfn is bounded everywhere we get tnfn mtfn applying gm to this the fuglede putnam theorem and a generalization of barría s lemma toshihiro okuyama keiichi watanabe published 1998 mathematics let a and b be bounded linear operators and let c be a partial isometry on a hilbert space in this note we use the notion of a bounding sequence for an unbounded normal operator to prove the unbounded version and a generalization of the fuglede putnam theorem this paper gives a new and much simpler proof of the rather complicated proof of theorem 5 of 3 due to mortad on relaxation of normality in the

fuglede putnam theorem takayuki furuta1 abstract an operator means a bounded linear operator on a complex hilbert space the familiar fuglede putnam theorem asserts that if a and b are normal operators and if x is an operator such that ax xb then a x xb it follows from a theorem of b fuglede that the ring a of all bounded operators in a hilbert space hence any adjoint containing subring thereof is an ft ring 3 theorem i for this ring c r putnam obtained the following generalization 9 lemma if ai a2 are normal and bai a2b then ba a b location and contact 127 kitchener road singapore 208514 singapore lavender 0 5 miles from little india website 65 6295 6358 improve this listing michelin guide s point of view opened in 2000 this was the first branch of this chain known for its exceptionally friendly service the updated dining room boasts a light colour sch the fuglede putnam theorem for p k quasihyponormal operators i kim published 2006 mathematics the norm closure of a subspace of is denoted by we denote the kernel and the range of an operator t by ker t and ran t respectively putien northpoint 930 yishun avenue 2 02 42 44 singapore 769098 phone 65 6257 1482 asian soups noodles singaporean putien great world closed free delivery 4 6 5 500 see reviews more info available deals pro free delivery min order s 15 and special savings for pandapro members popular 6 seasonal dishes 10 grab set menu 5 starter 6 meat seafood 15 vegetables 10 main course 6 soup 3 drink 7

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since for a p w hyponormal operator this is not always true p w hyponormal operator do not fuglede putnam s theorem for example if p is the orthogonal projection onto with t is p w hyponormal then but the following result corollary 4 6 prove that if s are p w hyponormal operators such that reduces and reduces s then the pair

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