ON JOINT SPECTRUM OF INFINITE DIRECT SUMS

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Abstract. For families of uniformly bounded n-tuples $T_k = (T_k^1, \cdots, T_k^n), k = 1, 2, \cdots$ of commuting operators on $\mathscr{H}$, the joint spectrum of $\oplus_{k=1}^{\infty} T_k$ is considered.

REFERENCES

[1] R. CURTO, *Fredholm and invertible n-tuples of operators*, Trans. Amer. Math. Soc. **266** (1981), 129–159.
[2] R. CURTO AND K. YAN, *The Taylor spectrum of infinite direct sums*, Contemp. Math. **120** (1991), 19–27.
[3] M. CHŌ AND M. TAKAGUCHI, *Joint spectra of matrices*, Sci. Rep. Hirosaki Univ. **26** (1979), 15–19.
[4] J. PUSHPA AND S. M. PATEL, *On joint spectrum, joint numerical range and joint spectral radius*, Glasnik Mat. Ser. III **13** (1977), 315–321.
[5] J. L. TAYLOR, *A joint spectrum for several commuting operators*, J. Funct. Anal. **6** (1970), 172–191.
[6] J. L. TAYLOR, *The analytic functional calculus for several commuting operators*, Acta Math. **125** (1970), 1–38.

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