GENERAL INCLUSION THEOREMS FOR
ABSOLUTE SUMMABILITY OF ORDER $k \geqslant 1$

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Abstract. We establish a general inclusion theorem for absolute summability of order $k \geqslant 1$, involving two lower triangular matrices. As corollaries we obtain a number of other inclusion theorems.

REFERENCES

[1] H. BOR, *On the relative strength of two absolute summability methods*, Proc. Amer. Math. Soc. **113**, (1991), 1009–1014.
[2] H. BOR, B. THORPE, A note on two absolute summability methods, Analysis **12**, (1992), 1–3.
[3] T. M. FLETT, *On an extension of absolute summability and theorems of Littlewood and Paley*, Proc. London Math. Soc. **7**, (1957), 113–141.
[4] H. C. RHALY, JR., *Discrete generalized Cesàro operators*, Proc. Amer. Math. Soc. **80**, (1982), 405–409.
[5] H. C. RHALY, JR., *p-Cesáro matrices*, Houston J. Math. **15**, (1989), 137–146.
[6] B. E. RHOADES, *Inclusion theorems for absolute matrix summability methods*, J. Math. Anal. Appl. **238**, (1999), 82–90.

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