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A Hajós type result on factoring finite abelian groups by subsets II

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Abstract: It is proved that if a finite abelian group is factored into a direct product of lacunary cyclic subsets, then at least one of the factors must be periodic. This result generalizes Hajós's factorization theorem.

Keywords: factorization of finite abelian groups, periodic subset, cyclic subset, Hajós's theorem

AMS Subject Classification: Primary 20K01; Secondary 05B45, 52C22, 68R05

REFERENCES

- [1] Corrádi K., Szabó S., *A Hajós type result on factoring finite abelian groups by subsets*, Math. Pannon. **5** (1994), 275–280.
- [2] Hajós G., *Über einfache und mehrfache Bedeckung des n -dimensionalen Raumes mit einem Würfelgitter*, Math. Z. **47** (1942), 427–467.
- [3] Sands A.D., *A note on distorted cyclic subsets*, Math. Pannon. **20** (2009), 123–127.