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Kontakt/Contact

Digizeitschriften e.V.
SUB Göttingen
Platz der Göttinger Sieben 1
37073 Göttingen

✉ info@digizeitschriften.de

"Let $\mathbf{G} \in \mathfrak{G}_n^*$. Then a partition

$$\{\{u_{i(1)}, \dots, u_{i(a)}\}, \{u_{i(a+1)}, \dots, u_{i(n)}\}\} \text{ of } \{u_1, \dots, u_n\}$$

exists such that

$$(j) \quad 1 \leq a \leq \left\lfloor \frac{n}{2} \right\rfloor$$

$$(jj) \quad \max \{d_{i(1)}(\mathbf{G}), \dots, d_{i(a)}(\mathbf{G})\} \leq n - a$$

$$(jjj) \quad \max \{d_{i(a+1)}(\mathbf{G}), \dots, d_{i(n)}(\mathbf{G})\} \leq a."$$

Also the remaining assertions of this paper may be formulated in a "complementary" fashion.

In the conclusion we present the following problem: Theorems 1 and 3 are certain necessary conditions for n given nonnegative integers to be representable as degrees of a certain graph $\mathbf{G} \in \mathfrak{G}_n$. We find it interesting to look for some necessary and sufficient conditions.

References

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Author's address: 115 67 Praha 1, Žitná 25 (Matematický ústav ČSAV).