COVERING AND +-COVERING NUMBERS OF ANALYTIC IDEALS

Streszczenie

For an ideal $\mathcal{J}$ on ω, we will be interested in the following two cardinal invariants:

$$\mathrm{cov}^*(\mathcal{J}) = \min\{|\mathcal{F}| : \mathcal{F} \subseteq \mathcal{J} \text{ and every } X \in [\omega]^\omega \text{ infinitely intersects some } F \in \mathcal{F}\}$$
$$\mathrm{cov}^*_+(\mathcal{J}) = \min\{|\mathcal{F}| : \mathcal{F} \subseteq \mathcal{J} \text{ and every } X \in \mathcal{J}^+ \text{ infinitely intersects some } F \in \mathcal{F}\}$$

For ideals which are analytic P-ideals or F_σ will show how these invariants relate to Cichoń's diagram as well as other classical cardinal characteristics of the continuum.