

İSTANBUL ANALYSIS SEMINARS

Isomorphisms of Cartesian products of ℓ -power series spaces

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Let ℓ be a Banach sequence space with a monotone norm $\|\cdot\|_\ell$, in which the canonical system (e_i) is a normalized symmetric basis. A complete isomorphic classification of Cartesian products $E_0^\ell(a) \times E_\infty^\ell(b)$ is given, where $E_0^\ell(a) = K^\ell(\exp(-\frac{1}{p}a_i))$ and $E_\infty^\ell(b) = K^\ell(\exp(pa_i))$ are finite and infinite ℓ -power series spaces, respectively.

This classification is the generalization of the results in [P. A. Chalov, P. B. Djakov, V. P. Zahariuta, *Compound invariants and embeddings of Cartesian products*, Studia Math **137**(1) (1999), 33–47.] and [P. B. Djakov, M. Yurdakul, V. P. Zahariuta, *Isomorphic classification of Cartesian products*, Michigan Math. J., **43** (1996), 221–229.] by using the method of compound linear topological invariants developed by V.P. Zakharyuta.

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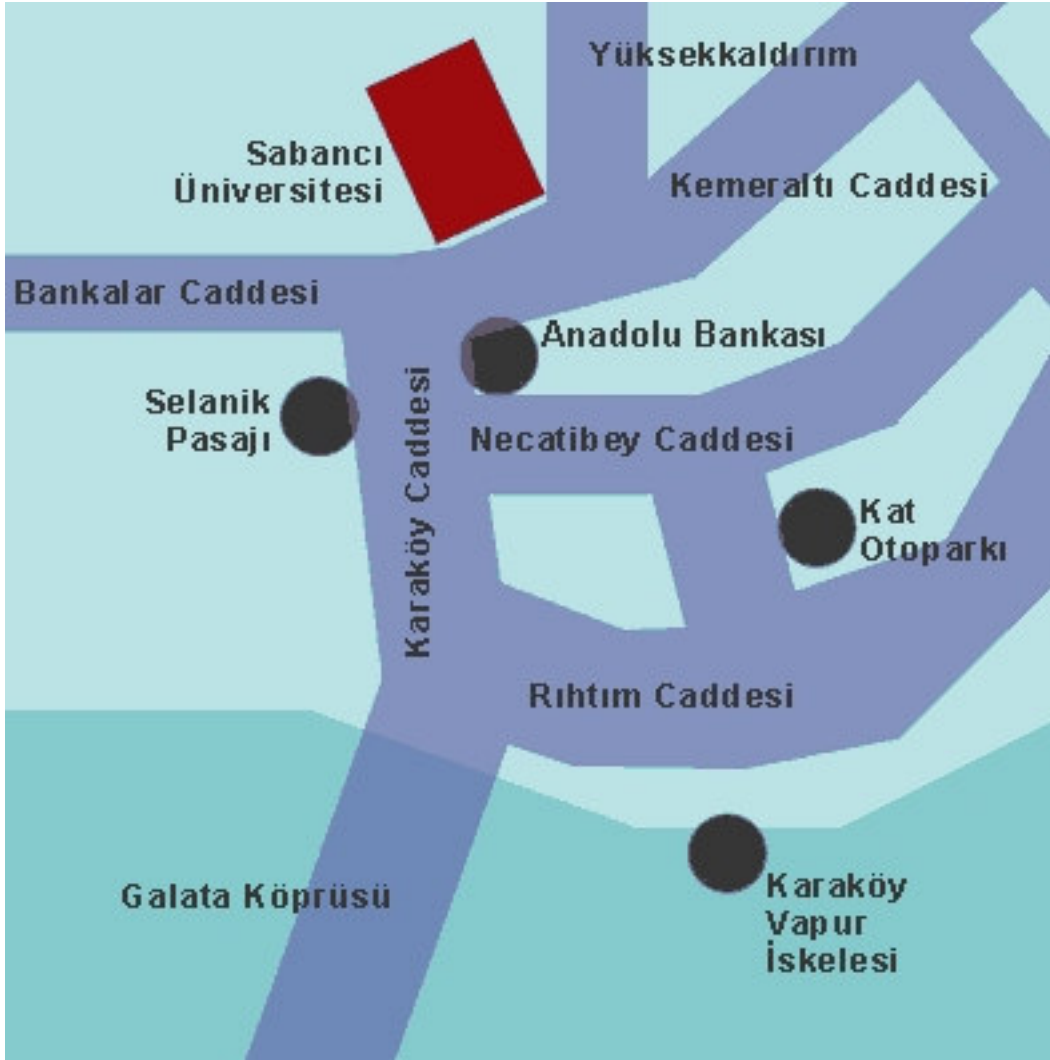
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Sketch of Karaköy İletişim Merkezi