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Unitary equivalence criterion for unicellular operators on a separable Hilbert space

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In [1], [2] we obtained the necessary and sufficient conditions that classify unicellular matrices up to unitary similarity. We extend this result to operators on a separable Hilbert space and apply it to Volterra operator problem.

- [1] D. Farenick, T. G. Gerasimova, N. Shvai, *Linear Algebra Appl.* **435**, (2011), pp. 409–419.
- [2] D. Farenick, V. Futorny, T. G. Gerasimova, V.V. Sergeichuk, N. Shvai, *Linear Algebra Appl.* **435**, (2011), pp. 1356–1369.