Abstract: The concept of Kaplansky–Hilbert module was introduced by I. Kaplansky in [1] under the name AW*-module. Cyclically compact sets and operators in lattice-normed spaces were introduced by A. G. Kusraev, see [2]. In particular, a general form of cyclically compact operators in Kaplansky–Hilbert modules, which is similar to the Schmidt representation of compact operators on Hilbert spaces, as well as a variant of the Fredholm alternative for cyclically compact operators, were also given. In this talk, we will present some characterizations of cyclically compact operators and Schatten-type classes of operators on Kaplansky–Hilbert modules.

References
