NUCLEAR FRÉCHET LATTICES

Mert ÇAĞLAR

İstanbul Kültür University
Department of Mathematics and Computer Science

A classical result due to Y. Komura and S. Koshi states that every nuclear vector lattice is discrete as a vector lattice, whence every nuclear vector lattice is densely embedded in a nuclear perfect sequence space with countable or uncountable coordinates. In a similar vein, A. Fernández and F. Naranjo have given in 2002 a characterization of nuclear Fréchet lattices in terms of lattice properties of semi-norms: a Fréchet lattice is nuclear if and only if it is both an AL- and an AM-space. The present talk, in which the proof of the above-mentioned result will be outlined, will be a report on Fernández and Naranjo's paper.