

**SET VALUED INTEGRABILITY IN NON SEPARABLE
FRÉCHET SPACES AND APPLICATIONS**

VALERIA MARRAFFA

We consider measurability and integrability for set valued functions in non-necessarily separable Fréchet spaces. We give some properties concerning the equivalence between different classes of measurable multifunctions and also provide useful characterizations of Pettis set-valued integrability in the announced framework. Moreover, we indicate applications to Volterra integral inclusions.

DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE, UNIVERSITY OF PALERMO, VIA
ARCHIRAFI 34, 90123 PALERMO, ITALY

E-mail address: `valeria.marraffa@unipa.it`