

# ICRAMCS 2026

THE EIGHTH EDITION OF THE INTERNATIONAL CONFERENCE ON  
RESEARCH IN APPLIED MATHEMATICS AND COMPUTER SCIENCE

April 23-24-25, 2026 | Marrakech, Morocco



## Common spectral properties using v-convergence

### Communication Info

#### Authors:

HADJI Soufiane

*Mohamed V University*

*Ecole Normale Supérieure*

*Rabat, Morocco*

#### Keywords:

(1) **v-convergence**

(2) spectral properties

### Abstract

We show that if  $(\{T_n\})$  is a sequence of bounded linear operators on a complex Banach space  $(X)$  that  $v$ -converges to two bounded linear operators  $(T)$  and  $(U)$ , then  $(T)$  and  $(U)$  share the same parts of the spectrum. In particular, this result generalizes those of Sanchez-Perales and Djordjevic [J. Math. Anal. Appl. 433 (2016), 405–415] and Ammar [Indagationes Mathematicae 28 (2017), 424–435].

© ICRAMCS 2026 Proceedings ISSN: 2605-7700

### References

- [1] A. Ammar, Some properties of the Wolf and Weyl essential spectra of a sequence of linear operators  $\nu$ -convergent, Indagationes Mathematicae 28 (2017) 424-435.
- [2] Sanchez-Perales, Salvador and Djordjevic, Slavisa V, Spectral continuity using  $\nu$ -convergence, J. Math. Anal. Appl. {433} (2016) 405--415.
- [3] Ahues, Mario and Largillier, Alain and Limaye, Balmohan, Spectral computations for bounded operators, {Chapman and Hall/CRC.} (2001).