

## Suites Spectrales de Hochschild-Serre à Coefficients dans un Espace Semi-Normé\*

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### ABSTRACT

In this paper, we prove the existence of the theory of spectral sequences in the category of real semi normed spaces. Using this theory, we associate to any extension of discrete groups the Hochschild-Serre spectral sequence in bounded cohomology with coefficients, in addition, we give the explicit expression of the first and the second term of this spectral sequence without further hypothesis.

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