

# Detection of spectral instability in EEG recordings during the preictal period

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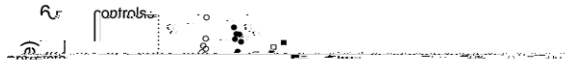
<sup>1</sup> Inserm U318, Laboratoire de Neurosciences Précliniques, Grenoble, France

<sup>2</sup> 2001 This paper presents a novel algorithm (ISpI) based on multiple abrupt changes of EEG spectral features calculated for each patient during the preictal phase against a baseline corresponding to interictal records. This approach allows a computationally efficient implementation









*ISpIRISpIR*

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## **References**

Aksenova T I and Shelekhova V Y 1995 Fast algorithms of