

Statistical monitoring of atrial fibrillation?

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It is an open question, whether complex fragmented activity during fibrillation in the atrium, might characterise the stage of the pathology. Eventually, this could be used as genuine monitoring during ablation. We adress it by analysing the statistical properties of human's endocavitary electrograms during ablation. Particular attention is given to the fluctuations of the potential, which are in general not considered as relevant, for lack of clear interpretation. We believe that these are prototypical of non-equilibrium fluctuations, and that interpretation can be confidently envisaged from their statistical properties. A recent theoretical clarification on the probability distribution functions is a basic guideline for the study.