

THE CRM APPLIED MATHEMATICAL AND PHYSICS (CAMP) SEMINARS



CENTRE DE RECERCA MATEMÀTICA

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Using cardiac modelling for understanding cardiovascular diseases

Abstract:

More and more frequently computational models are used as tools for clinical application and research. Particularly, computational modeling of cardiovascular dysfunction provides a better understanding of cardiovascular adaptation caused by specific clinical diseases.

Clinicians, mostly cardiologists, are looking for answers and analysis to diagnose better clinical information of these cardiac problems. Sudden cardiac death is the particular clinical topic of interest, which is mostly taking place in elite athletes, like football players.

Therefore, one particular cardiac model will be presented and described. The clinical hypothesis, according to recent clinical papers, about the sudden cardiac death will be presented and they will be linked to the presented cardiac model to explain how we try to approach the remodeling of elite athletes.

Date: December 12, 2013

Place: Room C1/028

Time: 12:00

