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## **Scalar field (a.k.a Ultra light axion) DM in dSph's and some aspects of structure formation.**

*Monday 22 October 2018 12:40 (30 minutes)*

I will discuss about the status of constraints for Scalar Field DM models arising from dwarf spheroidal kinematics. As well as about the differences, in the structure formation process, between the free scalar field and the self-interacting one, endowed with a trigonometric potential, that can help to avoid the constraints set by the Lyman-alpha forest and the dSph's kinematics.

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**Session Classification:** Opening and Morning session