

JUNIOR SCIENTIFIC VISIBILITY PROGRAM

SOME FREE BOUNDARY PROBLEMS IN PHYSICS AND BIOLOGY

Course held by
Professor *Rafael Granero-Belinchón* - University of Cantabria

PROGRAM

Free boundary problems are a challenging area with many applications to real life phenomena. In this course, we will review some of their applications to fluid dynamics and biology. The main topics we are going to discuss are the following:

1. Introduction to free boundary problems in fluid dynamics: the case of the vortex patch.
2. The water waves problem: well-posedness and asymptotic models.
3. The Muskat: well-posedness and asymptotic models.
4. Free boundary problems in tumor growth.

TIME SCHEDULE

Monday, 19th July from 15:00 to 17:00

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Wednesday, 21st July from 15:00 to 17:00

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Friday, 23rd July from 15:00 to 17:00

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Monday, 26th July from 15:00 to 17:00

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Wednesday, 28th July from 15:00 to 17:00



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