

**Line B: mathematical modelling, PDEs and applied mathematics**  
**Monday 11 November, 12:00 Sala d'actes**

<b>Time</b>	<b>Speaker</b>	<b>Title</b>
12:00-12:03	Juanjo Rué	Welcome
1 12:03-12:11	Jose J. Muñoz	Control and optimisation in PDEs. Application to organisms locomotion
2 12:11-12:19	Toni Guillamon	Mathematical models of neuronal activity
3 12:19-12:27	Marino Arroyo	Mathematical and computational modeling of cells and tissues with the theory of active gels
4 12:27-12:35	Marta Casanellas/Jesus Fernández	Algebraic tools for species evolution
5 12:40-12:48	Luis Velasco/Marc Ruiz	Mathematics and Computers Science: some examples
6 12:48-12:56	Maria Alberich/Julia Borrás	Topological measures to plan flexible objects bimanual robotic manipulation
7 12:56-13:04	Maria Alberich/Jaume Amorós/Franco Coltraro	Reconstruction of surfaces with boundary from a point cloud
8 13:04-13:12	Antonio Agudo	Image Reconstruction from samples (3 projects)
9 13:12-13:20	Pablo Saez	Mathematical modeling of electrotaxis and electric fields in biology
10 13:25-13:32	Jordi Cortadella	Mathematical optimization for architectural layout design