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Growing length-scales at the glass and jamming transition

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Growing timescales are usually associated to growing length-scales. The glass transition is no exception. Recent experimental, numerical and theoretical results unveiled that the slowing down of the dynamics is accompanied by growing dynamic and static correlation lengths.

The aim of this talk is to present an overview of what has been recently understood about growing length-scales at the glass transition and their role in glassy dynamics. I will also discuss the main open questions and the predictions of different theoretical approaches.