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Does inflation always start with a Bang?

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Inflationary spacetimes have been argued to be past geodesically incomplete in many situations. However, whether the geodesic incompleteness implies the existence of an initial spacetime curvature singularity or whether the spacetime may be extended (potentially into another phase of the universe) is generally unknown. Both questions have important physical implications. In this talk, we will take a closer look at the geometrical structure of inflationary spacetimes and investigate these very questions.

Presenter: QUINTIN, Jerome (U. Waterloo & Perimeter Inst. Theor. Phys.)