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Instability phenomena for the Einstein-Lichnerowicz equation (short talk)

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The stability of the Einstein-Lichnerowicz equation is defined as the continuous dependence of the set of its positive solutions in the choice of the background physics data of the conformal method. When the conditions ensuring stability fail, surprising phenomena can arise, such as the existence of an infinite number of concentrating positive solutions. In this talk we will investigate some of these instability phenomena for the Einstein-Lichnerowicz equation when a non-trivial scalar field is present.

Orateur: PREMOSELLI, Bruno (Université de Cergy-Pontoise)