Contribution ID: **38** Type: **Plenary/Parallel talk**

On dynamical system approaches in f(R) gravity

Dynamical system formulation is an important qualitative tool now widely used in cosmology to understand the cosmological solution space of a theory. A number of dynamical system formulations have been proposed over the last few years to analyse cosmological solutions in f(R) gravity. I will try to give a brief introduction to the different approaches, presenting them in a chronological order as they appeared in the history of the relevant scientific literature. I will particularly illuminate how the shortcoming(s) of an existing formulation encouraged the development of an alternative formulation. I will also try to emphasize the utility of the dynamical system formulation in to study various aspects of cosmological perturbations.

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Session Classification: Poster session