Bern-Fribourg Graduate Seminar

a seminar for Master and PhD students

Thursday 18th April, 2024: 17:15 - 18:00

Room B7, Exakte Wissenschaften, Bern

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Minimal metric spheres and bubbling

Abstract

There are many recent developments about the metric Plateau-Douglas problem, regarding the existence of minimal surfaces of a specified topological type in metric spaces. One possible extension to these results leads to the study of the existence of non-trivial minimal spheres and the so-called bubbling phenomenon. The phenomenon is an important type of singularity, first described by Sacks-Uhlenbeck, that has been observed in a wide range of settings. In this talk we will introduce necessary concepts and explore some potential approaches to this study.