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LNE property for a set and its medial axis (1)

Description: For a set $X \subset \mathbb{R}^n$ we can consider metric in two ways. First, the induced Euclidean metric $\mathbb{R}^n$, second as the infimum of curves connecting points. The set is Lipschitz Normally Embedded (LNE), if these two metrics are equivalent. During the seminar we will discuss the connection between LNE property of the set and its medial axis. In particular we will show that in general non-LNE medial axis does not imply non-LNE set. Later we will discuss some ideas about providing an effective way to check if a set has the LNE property.