

# Geometric invariants of cuspidal edges

Kentaro Saji (Kobe University)

In this talk, I deal with geometric invariants of cuspidal edges. There are two fundamental geometric invariants of cuspidal edges: singular curvature and limiting normal curvature. Considering J. M. West type normal form of a cuspidal edge, it suggests us there are six geometric invariants of a cuspidal edge up to three order. In this talk, geometric meanings of these invariants and intrinsity of them will be presented. Some of them are related to the Gaussian curvature and the mean curvature around a cuspidal edge. This is based on joint works with Luciana Martins, and Luciana Martins, Masaaki Umehara and Kotaro Yamada.