

Dmitry Ryabogin, Kansas State University

On the local equatorial characterization of zonoids.

We prove that there is no local equatorial characterization of zonoids in *odd* dimensions. This gives a negative answer to the conjecture posed by W. Weil and shows that the local equatorial characterization of zonoids may be given only in even dimensions. (joint work with Fedor Nazarov and Artem Zvavitch).