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WORKSHOP ON CONVEXITY AND ASYMPTOTIC GEOMETRIC ANALYSIS
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Detecting symmetry in star bodies

Vlad Yaskin *

vladyaskin@math.ualberta.ca

We use Fourier transform techniques to prove a result on detecting symmetry in convex and star bodies with the help of conical sections. Our methods also allow us to give a new proof of the well-known theorem of Makai, Martini and Odor about maximal hyperplane sections passing through the same point.

This is joint work with Dmitry Ryabogin.

*Vlad Yaskin Department of Mathematical and Statistical Sciences University of Alberta 632 Central Academic Building
Edmonton, AB T6G 2G, CANADA.