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WORKSHOP ON CONVEXITY AND ASYMPTOTIC GEOMETRIC ANALYSIS  
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## On the $L_{-2}$ Minkowski problem

Mohammad Najafi Ivaki \*

math.najafi@gmail.com

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The  $L_{-n}$  Minkowski problem is one of the fundamental problems in centro-affine geometry, particularly so in centro-affine differential geometry. We will show that the set of smooth,  $\pi$ -periodic, positive functions on the unit sphere for which the  $L_{-2}$  Minkowski problem is solvable is dense in the set of all smooth,  $\pi$ -periodic, positive functions on the unit sphere with respect to the  $L^\infty$  norm. Additionally, we will briefly discuss necessary and sufficient conditions for the solvability of the problem.

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\*Department of Mathematics and Statistics, Concordia University, 1455, boul. de Maisonneuve Ouest, Montréal, QC H3G 1M8, CANADA.