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[View Table of Contents](#)

Section 1. Classical Gravity and GR Extensions

A perfect-fluid spacetime for a slightly deformed mass

M. Abishev¹ K. Boshkayev¹ H. Quevedo¹ S. Toktarbay¹

¹Physical-Technical Faculty, Al-Farabi Kazakh National University, Al Farabi av. 71, 050040 Almaty, Kazakhstan

²Instituto de Ciencias Nucleares, Universidad Nacional Autónoma de México, AP 70543, México, DF 04510, Mexico

We present approximate exterior and interior solutions of Einstein's equations which describe the gravitational field of a static deformed mass distribution. The deformation of the source is taken into account up to the first order in the quadrupole.

Keywords: Quadrupole; compact objects; perfect fluid

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