

Abstract Submitted
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Relativistic Beaming of Gravity and the Missing Mass Problem

BRADFORD C BLAKE, Independent researcher — My research is based on the principle that gravity emanating from a relativistically moving source should be beamed in the same manner as light. Further, that an array of compact objects in the galaxy resulting from supernovae, primarily stellar mass black holes undergoing relativistic rotation, should thereby concentrate their gravitational force into the stellar plane of the galactic disk. This would make possible speeds in excess of Keplerian limits for stars and gas clouds, especially in the outer portions of the Galaxy. I model the galactic disk as a cylinder, and use Gauss's law to derive a $1/r$ formula for the resulting gravitational force, which I call "directed gravity." This $1/r$ force could explain the flat rotation curve of the Galaxy.

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