## A Paraxial Investigation of Resistive Relativistic Jet Dynamics

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Astrophysical jets are objects of significant theoretical interest, as the extreme conditions met in these energetic outflows render them natural laboratories for studying relativistic plasmas with strong magnetic fields. In this work we focus on the properties of relativistic jets with a non-zero electrical resistivity in the vicinity of their axis of symmetry. We perform a paraxial expansion of the resistive relativistic MHD equations in spherical geometry and obtain analytical solutions which reveal the effects of ohmic dissipation on the acceleration and collimation mechanisms of such outflows. These solutions determine the dynamics of resistive relativistic jets near their axis, which are compared to the dynamics of their ideal, non-dissipative counterparts.