

Abstract Submitted  
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**Force-free Magnetosphere of a Kerr Black Hole and Energy Extraction**<sup>1</sup> GOVIND MENON, Troy University, CHARLES DERMER, Naval Research Laboratory, TROY UNIVERSITY COLLABORATION, NAVAL RESEARCH LABORATORY COLLABORATION — Recent results on the electrodynamics of Black Holes will be discussed using the 3+1 (space and global time) formalism. This formalism has permitted the construction of an exact class of solutions to the Blandford-Znajek mechanism. Physical properties of the exact solution are analyzed following which the nature of jet formation and energy extraction from Kerr Black Holes will be presented.

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