

AURORAL PHENOMENA

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The aurora represents a sink of energy in the magnetosphere-ionosphere system, converting particle kinetic energy to radiation in beautiful and breathtaking displays. This review focuses on recent advances in understanding the physical processes in the magnetosphere which cause and accompany auroral phenomena. We include recent scientific progress made using a variety of tools, from ground-based and in-situ observations, and laboratory experiments which have been designed to study auroral zone physics, through to theoretical treatments and numerical simulations.

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