

Motional Stark Effect Measurements On MAST-U



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Introduction

Motional Stark Effect

Hydrogen atoms injected into plasma from a neutral beam system experience a Lorentz electric field in their rest frame as they move through the magnetic field.

Lorentz E field induces stark splitting in allowed transitions of the n=3 to n=2 balmer line (D_alpha). This emitted light is polarized parallel and perpendicular to the E field.

MSE System on MAST-U

Future Work

References