

Introduction

MSE System on MAST-U

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_{α}). This emitted light is polarized parallel and perpendicular to the E field.

Future Work

References