

THE EVOLVING ROLE OF ATOMIC COLLISIONS IN MAGNETIC FUSION RESEARCH¹

F. W. Meyer

Atomic physics is playing a prominent role in solving the problem of achieving adequate particle and power exhaust for long pulse/steady state operation of next generation magnetic fusion devices such as ITER. The proposed use of atomic processes to create a "radiating divertor" in which the required power exhaust is achieved will be described and placed into the general context of atomic and plasma-wall interactions occurring in the plasma edge.

1. Abstract of published paper: *Comments At. Mol. Phys.* **33**, 193 (1997).