Effect of external current loop on plasma equilibrium.

Abstract

In a tokamak, reliable plasma startup is the backbone of a reproducible and repeatable plasma discharge. Plasma pressure induced outward force should always be balanced with externally applied magnetic force during all these time. For this external current loops are used. This project involves the equilibrium study of tokamak plasma and its evolution in presence of external current loops.

Academic Project Requirements:

1) Required No. of student(s) for academic project: 1

2) Name of course with branch/discipline: B.Sc. Physics

3) Academic Project duration:

(a) Total academic project duration: 12 Weeks
(b) Student's presence at IPR for academic project work: 2 Full working Days per week

Email to: kmishra@ipr.res.in[Guide's e-mail address] and
project_phy@ipr.res.in [Academic Project Coordinator's e-mail address]

Phone Number: 079 -2137 [Guide's phone number]